

Table SI. Expression values of differentially expressed genes in the combined dataset.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
ABCA13	2.637449571	2.57475092	2.625957288	2.660034189	2.609204919	2.728070274
LOC283665	2.66195766	2.612947755	2.636730949	2.729527318	2.650292117	2.54328929
CAGE1	2.529716663	2.493673294	2.518143733	2.502750103	2.515102763	2.47289505
LOC100507431	2.648458275	2.420686696	2.668437221	2.452297408	2.608521358	2.652357204
CSTF3-AS1	2.457999846	2.410639718	2.430340204	2.501248277	2.436969613	2.419670851
POU6F2-AS2	2.648685906	2.526389147	2.613611513	2.663999701	2.618747438	2.464693437
PCDH8	2.923462681	2.764084352	2.936825493	2.800315761	2.908765023	2.636647416
PDE6C	2.465753128	2.461510631	2.452168788	2.494457235	2.454553225	2.414724224
LINC00616	2.733778693	2.663642698	2.708012424	2.748220495	2.7100687	2.642936415
CLCA3P	2.507932341	2.44740129	2.474165335	2.57435819	2.479957223	2.525014416
FREM3	2.760067371	2.659739225	2.757878397	2.723707928	2.74332343	2.659738656
SLC17A8	2.607214443	2.442590956	2.569162398	2.570742812	2.570714979	2.447019787
MAGEB6	2.497060414	2.496317261	2.47440629	2.561226137	2.48092294	2.494079237
MRPL45P2	2.572325327	2.478466662	2.544331708	2.557524249	2.533023327	2.654546881
MAB21L3	2.697036104	2.677587539	2.674597929	2.793892996	2.688920674	2.567521275
TECRL	2.459833175	2.383685898	2.441340339	2.427853055	2.437847277	2.371953693
UGT2B4	2.85755622	2.893495396	2.831363223	3.378239053	2.899468662	2.505552154
TBX22	2.634836606	2.483794599	2.60388233	2.655021883	2.59793665	2.547414524
LRRTM4	2.561144046	2.543179771	2.540140479	2.592937325	2.539986688	2.556856429
LOC101928739	2.617606577	2.536536112	2.573555501	2.731081581	2.589789933	2.618811867
LINC00238	2.617678844	2.535902175	2.586393719	2.656682725	2.591944714	2.513302377
C10orf126	2.533970559	2.466780806	2.49157161	2.647866977	2.51078078	2.47254219
C15orf43	2.592636607	2.490138971	2.550078007	2.69764262	2.567771904	2.450077509
POU1F1	2.589317701	2.502566239	2.5609733	2.582732127	2.566890651	2.451298082
LOC105377458	2.66529583	2.540682887	2.648396765	2.632795073	2.641199289	2.533621334
LOC101928140	2.673617611	2.590664626	2.648654873	2.663272849	2.654351361	2.535755662
LINC01541	2.601302524	2.484728199	2.548474076	2.728234329	2.548868961	2.838052359
LOC101929570	2.606132664	2.496521259	2.561290797	2.672362819	2.565590158	2.647663944
OLFM3	2.720670857	2.608780938	2.715852746	2.669170988	2.699465616	2.590837306
LOC253573	2.549755541	2.522771138	2.528184322	2.571875126	2.53702624	2.463692691
SH3GL1P1	2.599314077	2.488690164	2.554268046	2.661078472	2.572430293	2.446060834
LOC101928618	2.611839102	2.554469398	2.589005114	2.638304497	2.596401616	2.449587673
ASB5	2.660711539	2.600837909	2.652045666	2.667202227	2.622211646	2.92941113
LOC105374042	2.524423293	2.467206237	2.4966628	2.599362437	2.507421087	2.474409283
LINC01583	2.613294427	2.564259575	2.596763449	2.579406666	2.5890025	2.615545306
PDCL2	2.601616198	2.569068759	2.58527965	2.567168431	2.582239578	2.555619722
TCF24	2.571793196	2.445124255	2.529458516	2.621080607	2.538730345	2.46574742
LOC101927709	2.533097252	2.473274425	2.509096014	2.54134875	2.512643903	2.433346424
LINC01553	2.685220026	2.634925002	2.660416411	2.698679796	2.671128595	2.514145304
SFTA3	2.668025524	2.666441194	2.681224083	2.641321658	2.646463211	2.901602005
LOC100506999	2.630293984	2.549873077	2.589910526	2.70768916	2.603050407	2.588144398
LOC101928271	2.596111735	2.558571817	2.578622049	2.597321704	2.57999864	2.493363212
CADM2-AS1	2.55000239	2.536099852	2.539888216	2.54612461	2.539164476	2.517482099
LOC339622	2.551081102	2.435676303	2.508401319	2.620580191	2.517284943	2.527069022
C14orf39	2.894128767	2.829722306	2.877355769	2.898192084	2.876147279	2.759750835
ZNF876P	2.656901921	2.52318758	2.609229518	2.730865076	2.614404976	2.714552459
LOC105370737	2.684677437	2.597897747	2.649760478	2.77139584	2.667541806	2.527742888
LOC100996325	2.480876508	2.482930044	2.465892315	2.512623185	2.468194483	2.460458012
LOC102723648	2.551527087	2.501977089	2.534446829	2.546710559	2.529395334	2.578991637
RP1	2.835126551	2.659428751	2.772979642	2.966128606	2.79935658	2.687403133
LOC105377925	2.394469496	2.352496302	2.370999269	2.404104067	2.372459418	2.362291972
NEXN-AS1	2.682648586	2.579092125	2.625894903	2.865886439	2.655559459	2.608871704
DDX53	2.546693269	2.530245871	2.520529616	2.62282591	2.543364772	2.336294346
SCEL	2.713022717	2.7208451	2.705629886	2.781341468	2.714754269	2.541565191
LINC00403	2.55097615	2.479623286	2.516149034	2.626800719	2.532158297	2.437086146
SERTM1	2.763729757	2.669698086	2.700753897	2.99654244	2.717350418	2.987147948

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
IYD	2.821248884	2.584282943	2.773936676	2.841368896	2.784886477	2.546513383
KIAA0087	2.802725628	2.8521374	2.817388935	2.772855323	2.80500183	2.796957524
LOC1720	2.598502894	2.514974826	2.562902271	2.66387363	2.580627247	2.474837201
LINC00102	2.527961418	2.459214562	2.495571098	2.571651139	2.507448255	2.42484103
DPP10	2.857528855	2.612287821	2.807159112	2.921207157	2.818908731	2.617677005
LOC729652	2.663215298	2.581572186	2.627975972	2.721686901	2.639709298	2.605252048
LOC101928622	2.597506841	2.4827308	2.558427067	2.637693766	2.573402605	2.421746522
DAOA-AS1	2.698484876	2.631247225	2.66492886	2.749127143	2.677397282	2.589753521
SPO11	2.682414795	2.51101367	2.629817532	2.726042914	2.65348088	2.378550731
KLHL1	2.833927004	2.544047355	2.785731613	2.882987868	2.797557693	2.479249069
LOC101927211	2.651078731	2.623808279	2.640674211	2.620035827	2.63008249	2.672660618
HIST1H2BA	2.788080353	2.725781395	2.753734191	2.863724008	2.77222624	2.674877788
LOC101927450	2.818752372	2.656768604	2.76420234	2.89967503	2.785696025	2.668340969
VWC2	2.574002205	2.534993327	2.554355265	2.582184987	2.565186608	2.377549792
LOC101927121	2.623689262	2.578721925	2.596854467	2.656088539	2.605178481	2.552892602
ZNF674	2.607756456	2.508424195	2.575028697	2.597883954	2.575481302	2.552339145
LOC100996624	2.766507246	2.698011034	2.729944746	2.867244183	2.742127632	2.755370829
LOC439933	2.594302252	2.459122939	2.538593274	2.702418737	2.556154548	2.526976505
LOC93463	2.552461877	2.515167163	2.540673861	2.555964308	2.533743456	2.561276192
LOC101928283	2.833060725	2.647557231	2.785230648	2.873173773	2.794802015	2.712983095
IL12B	2.981375486	2.603172954	2.926716858	2.865315516	2.931808817	2.573799209
SLC25A31	2.625753225	2.532625608	2.583563053	2.684118665	2.597234632	2.541124409
LHX8	2.713492937	2.872101402	2.772490552	2.688029665	2.762944482	2.400358879
CCDC144NL-AS1	2.75001751	2.661321026	2.722214224	2.784016147	2.724142565	2.666482466
DAZL	2.75274587	2.560012696	2.715139219	2.701976152	2.711639524	2.592106274
NAALADL2-AS3	2.523046861	2.437163296	2.486480556	2.560774595	2.4932332	2.469085739
EPYC	4.169240171	2.605486165	3.977785221	3.522674173	4.036524895	2.027653638
KCNJ2-AS1	2.686866692	2.650627526	2.666394922	2.723204704	2.653514934	2.830654145
MAGEB18	2.598482353	2.565496576	2.562624492	2.709385419	2.57340375	2.651733126
DYDC1	2.688678999	2.590703651	2.654744115	2.734442326	2.664298659	2.594539836
ARNTL2-AS1	2.569262282	2.50122892	2.547250645	2.556022497	2.545207994	2.526529768
LOC101928961	2.670977766	2.609493675	2.647970622	2.699699985	2.653440744	2.59811959
IFNK	2.703180903	2.619754615	2.660418137	2.810462584	2.685299289	2.560636495
FMR1NB	2.596560335	2.528561774	2.568381172	2.635087957	2.570158467	2.598282711
SCG3	2.747175144	2.849095465	2.79677978	2.712904454	2.770159487	2.694505933
UGT2A3	2.679448106	2.545587111	2.633477594	2.721636318	2.644521996	2.596707861
OR5H1	2.635339454	2.57824188	2.609843846	2.669871387	2.612937017	2.616550848
MCF2L2	2.666815063	2.482299228	2.616039285	2.703389715	2.627868077	2.530044683
DCTN1-AS1	2.767040779	2.706368708	2.745983558	2.797437591	2.762571331	2.512062416
LINC01537	2.622175099	2.630629417	2.600764863	2.684602056	2.606000832	2.646063789
TYRP1	3.434569205	2.862364532	3.389752213	3.145392745	3.381230115	2.678079564
IRGM	2.631089748	2.65205685	2.611052483	2.735578892	2.620758431	2.656850501
CABS1	2.687576692	2.561190053	2.648612153	2.688064822	2.662668391	2.46395345
IGSF11-AS1	2.558291812	2.494706622	2.527604395	2.598640255	2.536701145	2.467875316
ZNF560	2.621926245	2.55800935	2.597000508	2.63188269	2.597267063	2.57508076
GCSAML-AS1	2.849075909	2.744049765	2.806756613	2.935874716	2.823248228	2.716317953
LOC100505878	2.576734432	2.563825272	2.556532676	2.617550532	2.563005391	2.517658966
DMBX1	2.641441567	2.647716858	2.645221322	2.602775602	2.635871507	2.583064972
LINC00648	3.027522457	2.884513007	2.963692386	3.298776204	2.978307272	3.219585951
LINC01021	2.550299104	2.503654212	2.538206268	2.56311495	2.53465889	2.50760443
C9	2.796680191	2.696437383	2.746049342	2.949739808	2.772169711	2.634730056
F13B	2.835845585	2.753843317	2.809391047	2.836087823	2.811531019	2.731539199
ARHGAP36	3.451499402	3.233616869	3.447778126	3.511922454	3.249671402	5.857677637
LOC414300	2.745663521	2.604011426	2.69456173	2.776907574	2.710444817	2.579905354
LACTB2-AS1	2.697087605	2.571533315	2.654205853	2.764207159	2.677954475	2.46407348
LOC340017	2.59616734	2.540379861	2.56664634	2.648504748	2.579944021	2.478763715

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
LINC01146	2.628754244	2.585577164	2.605490534	2.658071699	2.611583939	2.562127818
SLC13A1	2.607952984	2.539422917	2.572975941	2.656983073	2.591773552	2.420883672
IFNA8	2.653144954	2.579651945	2.623946866	2.673229646	2.639009322	2.465205342
MIR3663HG	2.712837075	2.604450404	2.67468878	2.757145276	2.67993663	2.662355434
ANKRD7	2.827710322	2.768516765	2.799766569	2.883790061	2.807529796	2.800449748
LINC00305	2.832309672	2.824942416	2.817557161	2.863798652	2.824897818	2.759735081
IL26	2.618671947	2.632037261	2.606492436	2.670084732	2.611117243	2.576543646
ZFY	2.650960469	2.547436791	2.611749277	2.660996091	2.625100069	2.474679528
PF4V1	2.597817993	2.621234351	2.582467684	2.684341807	2.581823591	2.667235671
LOC100130548	2.922109169	2.828652863	2.897616659	2.879003834	2.894967503	2.804388631
C11orf65	2.762544063	2.594026763	2.722820349	2.745269222	2.717976244	2.728255072
RFX6	3.0552417	2.710798103	3.007212446	2.98974713	2.876268507	4.560672019
MGAT4D	2.723794542	2.623951411	2.684610679	2.785542029	2.690559307	2.697142475
VWA8-AS1	2.673951405	2.584924084	2.645775749	2.676511484	2.662452945	2.414712167
LOC105370612	2.662197208	2.693299018	2.65467724	2.685556028	2.653266203	2.653791006
TAAR1	2.669897822	2.571880624	2.629309036	2.745236824	2.628107237	2.795738778
EDDM3B	2.90425292	2.647321063	2.858543903	2.865948809	2.844245929	2.902839342
LOC101927165	2.685622734	2.580814786	2.653265078	2.684113918	2.666383066	2.474881616
LOC400692	2.64340855	2.54206325	2.618318139	2.622554817	2.616444798	2.548175841
LOC105378311	2.626368998	2.509709319	2.588371527	2.682711624	2.592248069	2.640866838
CFAP54	2.727612879	2.593343384	2.687601003	2.755324987	2.701700234	2.520186299
LOC102800447	2.64401465	2.537677623	2.601342161	2.719091568	2.619492058	2.510793243
OR2W1	2.783286942	2.721504833	2.726537167	2.956640772	2.75961592	2.691424468
MGAT4C	2.682058183	2.570882664	2.643094891	2.753453809	2.650462912	2.579460193
MIR17HG	2.629008218	2.542473445	2.588681523	2.695903767	2.608560703	2.455694571
LOC101928211	2.599890911	2.500776788	2.568511005	2.606957914	2.575327492	2.467517952
RPE65	2.633617984	2.559792546	2.596062784	2.673371707	2.593121741	2.744671835
CCDC67	2.657656777	2.556545708	2.614213389	2.699063538	2.627852462	2.55177636
LOC100127974	2.827835611	2.803421226	2.809024626	2.882811447	2.814508875	2.74716103
GYPE	2.734142332	2.657251248	2.700573175	2.756115672	2.71186823	2.628895019
LINC00955	2.78732937	2.721576432	2.752846501	2.83462843	2.774262703	2.565756349
TMPRSS12	2.700469736	2.571903288	2.649101102	2.789844415	2.681483632	2.428901057
PKIA-AS1	2.571956946	2.486140252	2.546023249	2.563577514	2.552650909	2.39744667
SI	2.573192908	2.466488076	2.53648214	2.587371147	2.534764168	2.589345468
IGHV1-69	2.869654574	2.722691059	2.842630853	2.9181953	2.858248192	2.551264689
LOC100288238	2.671755352	2.570262447	2.627905228	2.759659419	2.642349427	2.602356161
RAD21L1	2.683771661	2.647107009	2.658688928	2.723120027	2.666772325	2.597539334
ATP13A4-AS1	2.650630087	2.562277447	2.605819585	2.805119436	2.598591049	2.975378367
LINC00551	2.620439403	2.50500224	2.57589814	2.667911184	2.585888817	2.540266837
PDC	2.73851279	2.621064283	2.69887736	2.772895815	2.714723416	2.561087995
LINC00485	2.577671761	2.496518942	2.548059334	2.570806862	2.558100687	2.386183304
DEFB114	2.548928459	2.469064623	2.502275191	2.682604003	2.53731818	2.303147908
MSTN	2.598513571	2.526840668	2.556740717	2.737610779	2.57421829	2.568894989
EXD1	2.859100546	2.730848471	2.818637444	2.899188233	2.840812465	2.615600971
VN1R108P	2.630044505	2.55352349	2.606492273	2.625589213	2.602203511	2.61826009
LOC101928052	2.597008882	2.584226365	2.575855848	2.680831674	2.598469634	2.386723901
LOC101928877	2.760487031	2.620990023	2.714112209	2.811755956	2.741535599	2.468223632
IFNA5	2.706450608	2.615215198	2.66841985	2.751033473	2.683051216	2.563259759
LOC100288966	2.721336902	2.62300229	2.743212186	2.572956664	2.709102537	2.584226064
LOC101927636	2.722332347	2.693282825	2.698103758	2.788609886	2.704733475	2.733877939
LOC101930164	2.630043429	2.504953963	2.583378044	2.694319133	2.595769024	2.565842704
LOC105372762	2.723559735	2.649310558	2.686837302	2.813999918	2.698262684	2.685911104
PPP4R3CP	2.586691708	2.510161125	2.563090648	2.546713176	2.560358354	2.500052547
LIPI	2.762261617	2.633445769	2.719669327	2.796330047	2.730032452	2.702333701
DACH2	2.821879989	2.711425971	2.807311152	2.788606395	2.809563958	2.589394223
LINC00355	2.983225671	2.893968694	2.967051137	2.968800445	2.970190546	2.757936806

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
CCDC83	2.689917613	2.694526463	2.686541841	2.685106753	2.682795725	2.606554208
DSG4	2.727600196	2.669408095	2.688519283	2.802810628	2.702322403	2.687431527
LGI1	2.851804443	2.859977285	2.834711592	2.966345004	2.840114375	2.910058029
IQCF4	2.691356904	2.664360343	2.678001123	2.653169967	2.673103475	2.624548091
LOC101929607	2.643225273	2.693415197	2.626690436	2.734533951	2.626455882	2.791495156
LOC642426	2.429974504	2.416246786	2.404136151	2.502251051	2.414984729	2.392318295
LOC401134	2.638187386	2.568708844	2.605794303	2.682520074	2.623444666	2.449132864
PP12708	2.646626543	2.650647019	2.641966119	2.633667975	2.638030119	2.640553266
LOC101929524	2.846443172	2.726365176	2.802710988	2.921114644	2.822066966	2.707380908
LINC00692	2.661198095	2.590749154	2.637440559	2.669353353	2.643733756	2.562602008
LOC101927066	2.5854372	2.566006924	2.567222927	2.624156901	2.568821988	2.564125278
LOC101928098	2.85853028	2.725301256	2.828504359	2.854821527	2.821808237	2.832095947
LMOD3	2.768859521	2.723910541	2.752443486	2.792917269	2.759570428	2.641346091
FRG1EP	2.778090147	2.666361643	2.747679474	2.795758143	2.751626599	2.687043196
CLDN10-AS1	2.821194028	2.854087493	2.820361387	2.855711788	2.816135618	2.854686216
TOP1P2	2.684720363	2.607516037	2.662381002	2.670559088	2.66764476	2.50764237
PIH2	2.580477464	2.507172623	2.536458703	2.690335535	2.55820201	2.48005992
LOC101928386	2.6597357	2.669448436	2.629453908	2.799842895	2.649050769	2.663817604
LOC101927314	2.635562926	2.606187407	2.603917549	2.742389768	2.621361747	2.568692332
DEPDC1-AS1	2.732827207	2.574490939	2.693073477	2.698956912	2.706590174	2.437106579
KRTAP4-7	2.817811949	2.642192597	2.78201586	2.782477293	2.784372448	2.65499302
ERVMER61-1	2.543004329	2.483365781	2.522133647	2.538898134	2.521153335	2.504164363
SH3GL2	2.844168205	2.706768476	2.819096195	2.871859543	2.820416301	2.651215262
SYT14	2.7183849	2.639581161	2.69626431	2.740586198	2.698269023	2.617750102
SOX2-OT	2.651616427	2.579478662	2.614170862	2.717471321	2.619106541	2.684278306
SPZ1	2.768509023	2.720234489	2.737925764	2.795749507	2.757603585	2.543804606
LINC00437	2.611680125	2.531407916	2.574539394	2.651443858	2.594225947	2.385649852
LOC101927829	2.674404284	2.657514549	2.647231253	2.759410453	2.652114062	2.746889014
CYP7A1	2.70411853	2.607899872	2.661821359	2.775384253	2.648607736	3.013490201
CDC14C	2.50922288	2.55982403	2.494879236	2.603767945	2.509019368	2.463534169
C8orf49	2.747587659	2.673433053	2.72094854	2.759291496	2.742630465	2.522083587
LOC100507221	2.636956372	2.531401312	2.585099771	2.76684912	2.61419248	2.452360422
LINC01492	2.694742343	2.598251215	2.669120563	2.654819436	2.67410184	2.493548529
LOC101927494	2.722347674	2.645190736	2.689995113	2.782047826	2.715413782	2.423934036
LOC105371967	2.932235609	2.814728655	2.898400574	2.950056493	2.903595654	2.844915001
PPEF2	2.776204488	2.594601401	2.742802434	2.694319743	2.73939914	2.582885713
SIAH3	2.641099001	2.534329587	2.636854789	2.593619334	2.628514628	2.460911761
LOC101928495	2.603890875	2.510361816	2.559134291	2.695493643	2.578478015	2.498977917
PANX3	2.832159602	2.719021143	2.792009484	2.856004497	2.799352278	2.74004404
LOC101928182	2.717703992	2.631321844	2.701959713	2.659882608	2.686339339	2.793865676
NRG4	2.748221869	2.653622992	2.716861581	2.779658673	2.725100994	2.69805243
RBM46	2.681642376	2.597029708	2.633049386	2.798829474	2.655509834	2.586534236
C17orf105	2.820423025	2.709984221	2.783379918	2.892511405	2.803411743	2.574233798
LOC100288721	2.751472868	2.674007	2.735647805	2.697034159	2.729852102	2.645514848
GALNTL5	2.713102392	2.604357266	2.673754125	2.765869494	2.698919927	2.43620679
IFNA1	2.678511935	2.599742938	2.634917787	2.768051304	2.658135959	2.498412939
UG0898H09	2.663850091	2.580966237	2.631997977	2.734916031	2.615682358	2.902315173
ASZ1	2.588145073	2.503763942	2.556925256	2.656269292	2.567981621	2.455723005
LINC00564	2.629563663	2.519814979	2.594963276	2.628606788	2.592975605	2.630267074
LOC102546226	2.792838109	2.742350886	2.779728747	2.787891374	2.786256262	2.617036096
TMPRSS11B	2.85035238	2.775985742	2.813941516	2.951770837	2.842137906	2.601740419
LOC340184	2.77682577	2.634454265	2.734148466	2.829000123	2.753616954	2.590428377
CCDC144CP	2.934352473	2.847779349	2.92815919	2.909629857	2.942829096	2.508755281
LRRC63	2.762674157	2.622765742	2.709558923	2.847728689	2.722545667	2.742514412
LOC100128176	2.616180701	2.613788469	2.598147351	2.65352551	2.61120917	2.484738642
OR2C3	2.706786466	2.641691606	2.674612002	2.761611382	2.685299982	2.647735182

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
CALB1	2.999549091	2.815485445	2.967906006	3.012546055	2.959699771	2.852551319
LOC101927292	2.801551856	2.701651524	2.767015595	2.789613359	2.771888554	2.710866352
LOC339352	2.774938058	2.776921514	2.765773516	2.762578233	2.768560183	2.667416854
ZNF157	2.745944235	2.607439779	2.704655324	2.771398838	2.708777908	2.684352974
LOC101929341	2.728872236	2.862737454	2.72859489	2.828701984	2.739858273	2.726151717
LOC440704	2.787245124	2.670360769	2.749511345	2.81695284	2.752835201	2.774654692
ZNF99	2.693489198	2.557080152	2.643893853	2.771678238	2.647351226	2.751544655
CCDC26	2.826575857	2.708148305	2.813750734	2.795285302	2.795507849	2.863000635
ATP8B5P	2.742707914	2.671079739	2.69981305	2.834372714	2.728760559	2.529263236
GJB6	3.22495265	2.69033458	3.149397301	3.083092965	3.14057965	2.807034036
RAG2	2.624602003	2.575247699	2.604171364	2.6242359	2.605595035	2.541574482
EQTN	2.760677393	2.720998956	2.726107923	2.862076975	2.736212871	2.776705309
FAM227B	2.75020045	2.710428373	2.722448237	2.82476301	2.736325509	2.687238676
SLC2A2	2.804650182	2.685558462	2.77696783	2.789239724	2.783808052	2.664321885
ARL14	2.867869705	2.706340144	2.851547237	2.793947255	2.850501877	2.611793487
LOC101927616	2.729061723	2.619399342	2.683588505	2.790538614	2.689728422	2.740335136
FRY-AS1	2.537610974	2.538962092	2.524815392	2.567721919	2.530676011	2.438595181
LINC00632	2.729508121	2.682512155	2.704663024	2.804163537	2.709602053	2.716608775
LOC100506489	2.64865852	2.587416467	2.624553557	2.664954918	2.638345981	2.419086318
C1orf110	2.75895856	2.646381018	2.735971631	2.724355609	2.735593409	2.602849604
SPIC	2.750011685	2.70752687	2.731645903	2.770495882	2.736378394	2.675186862
LOC101929741	2.953889557	2.796346772	2.895601795	3.09530939	2.927998021	2.758333568
HIPK1-AS1	2.793841236	2.715122273	2.770646518	2.810995568	2.786303547	2.554554564
LOC152274	2.795039685	2.701604356	2.770106326	2.815749458	2.786078241	2.511571431
TNIP3	2.995385949	2.696995793	2.933506309	2.960499029	2.937053635	2.840391147
C11orf87	2.637206316	2.594396638	2.606011761	2.690711945	2.612630289	2.664982044
FAM19A4	2.760978761	2.633073016	2.725344709	2.752076099	2.735380057	2.564543451
LOC101928020	2.793781235	2.675796702	2.74358199	2.877734422	2.748255923	2.890516112
RFPL1	2.65340773	2.575761034	2.622357027	2.679358149	2.627907673	2.551456226
TAS2R19	2.790457041	2.676678311	2.75891099	2.771193676	2.76279976	2.66776976
TTC29	2.872053241	2.794816802	2.840052559	2.915622606	2.854197912	2.684774238
SNX31	2.939017334	2.732026999	2.90147279	2.812203352	2.881579065	2.993999761
GPR22	2.743947817	2.642996627	2.70863475	2.776799009	2.71077001	2.771960098
LINC00507	2.777228053	2.665527065	2.741887417	2.786194393	2.746174014	2.707391097
BRINP3	3.481966682	2.915154053	3.496459435	3.035376272	3.399579254	3.203842443
DIRC1	2.74491278	2.609424386	2.710379613	2.720227051	2.720531239	2.547270586
C9orf57	2.870855786	2.771488299	2.840734141	2.873129134	2.844578261	2.762415882
LINC00290	2.723508424	2.654375944	2.700737962	2.698393397	2.702499294	2.612666456
LOC101928510	2.592494233	2.569748738	2.584735071	2.555566612	2.576221801	2.544955872
LOC100506071	2.859813879	2.699968241	2.815288648	2.898190441	2.832400604	2.692651171
USP9Y	2.713521404	2.626216308	2.672052845	2.762791195	2.67665049	2.749778603
C12orf77	2.842218861	2.752148024	2.808879912	2.871529252	2.823869275	2.660501512
GABRG1	2.706907391	2.728052499	2.696901135	2.751942406	2.708592283	2.554124772
KLHL32	2.559007404	2.509764016	2.529908045	2.611504853	2.523526349	2.729155771
LRRC19	2.663291067	2.686431484	2.645586101	2.727211876	2.656006939	2.612907722
LOC101928590	3.083878558	2.972972701	3.04453923	3.15367522	3.056716582	3.001679171
ZNF620	2.661937923	2.706436451	2.665714892	2.620041643	2.649173745	2.721667591
FLJ22763	2.715217283	2.687246677	2.694823601	2.815113896	2.712745998	2.553438115
CNPY1	2.847782576	2.721614858	2.808356068	2.880670515	2.82130825	2.696866602
OR2F2	2.79353248	2.706842925	2.758953556	2.815517441	2.781692438	2.54114067
LOC283585	2.988721835	2.798186543	2.937259703	3.061258224	2.965343373	2.685655408
PABPC5	2.747677016	2.856618328	2.679028149	3.248286573	2.740631273	2.905198638
GABRA2	2.86404619	3.214816385	2.903475753	3.065832606	2.911280406	2.965484248
PHACTR3	2.983778894	3.074410055	2.938327908	3.3736955	3.001485605	2.860783266
KRTAP9-9	2.627568951	2.502771679	2.584962442	2.684034094	2.599005206	2.518452053
LOC645485	2.657011277	2.558495604	2.623480039	2.683148568	2.624613152	2.649920328

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
LOC105372547	2.956242863	2.872920335	2.927743346	2.96963399	2.937432189	2.906647947
SORCS3	2.856568343	2.785376559	2.82245864	2.92021762	2.840350888	2.706897464
RRS1-AS1	2.711458721	2.651717359	2.696111865	2.682159327	2.676785659	2.838400537
MIA2	2.782213154	2.624470688	2.72513229	2.891548893	2.746129345	2.665567306
LOC101929174	2.90564979	2.900536694	2.861961281	3.092440485	2.892966572	2.850658591
LOC100996385	2.976020474	2.819097418	2.920885411	3.016580841	2.942714699	2.747753636
PTH	2.598879656	2.547312415	2.57898106	2.58926389	2.574717363	2.589921737
CBX3P2	2.725332561	2.81216896	2.703859074	2.921506535	2.717926434	2.87587051
LINC00320	2.832859389	2.7495113	2.811803864	2.806779456	2.814881392	2.660392393
LOC101927196	2.738269039	2.639095559	2.716803646	2.712783033	2.712287677	2.717237976
LINC00348	2.847530727	2.727070192	2.76235501	3.187952998	2.828838178	2.633295079
SLC10A4	2.58808104	2.537416401	2.559301785	2.661024228	2.562290518	2.65044437
IMPG1	2.63673095	2.573929051	2.620802084	2.622478384	2.618995523	2.507731
LOC102723684	2.720698746	2.755907869	2.711747487	2.755075804	2.724669152	2.645590264
INSM1	3.470685222	3.268950108	3.502285802	3.149680964	3.46861232	2.834347716
GUSBP1	2.83966251	2.694597939	2.81166844	2.809794973	2.813449085	2.631849277
C10orf107	2.834142117	2.81361296	2.820507119	2.887184325	2.835237495	2.69896188
C4orf22	2.691891622	2.676530063	2.672193816	2.774912861	2.686797921	2.558813522
PRKCA-AS1	2.781469965	2.704916653	2.747950484	2.814000634	2.756752275	2.711314097
LOC101927869	2.770549144	2.70120226	2.727443906	2.876877867	2.753943127	2.589875855
NBEAP1	2.692290068	2.575981155	2.644001924	2.835117387	2.658084538	2.681441988
SLC4A10	2.739349098	2.731664913	2.719857069	2.759736095	2.728011167	2.63150091
LOC101928909	2.932792865	2.964766083	2.920078082	2.997210081	2.938273579	2.815160859
CCDC141	2.731251812	2.878518483	2.683823747	3.144426113	2.724331553	3.027085416
LOC105369860	2.637784523	2.555701267	2.61416943	2.621585172	2.619048942	2.478567125
C17orf77	2.781954593	2.679304196	2.758468851	2.784100186	2.754516726	2.721859042
ZSWIM2	2.682833475	2.602811503	2.663106494	2.654041381	2.659958505	2.609970926
LOC101927723	2.782602606	2.666695235	2.742553725	2.807277566	2.763062829	2.519535477
LOC101927359	2.769826472	2.622732225	2.727569789	2.810801584	2.739375805	2.599308961
LOC283112	2.550077812	2.47643891	2.525797859	2.564837809	2.525130293	2.53550992
NMBR	2.932198692	2.761057989	2.876239541	3.008765108	2.895017004	2.813655984
LOC101927124	2.798915583	2.767788377	2.775488399	2.844495544	2.794465546	2.601094517
TSPYL6	2.886522941	2.822910237	2.865115821	2.935705503	2.885690124	2.623084239
OOSP2	2.840299789	2.680949703	2.778170915	2.953555374	2.798046814	2.771906613
STATH	2.782105601	2.664016094	2.760543129	2.788190616	2.751437917	2.760797759
LINC00837	2.742477756	2.705234953	2.724986141	2.775340615	2.723511784	2.741494358
ROR1-AS1	2.634672509	2.634504479	2.613472074	2.682061912	2.626245793	2.538515736
MBL2	2.778045996	2.708506781	2.75807759	2.771038571	2.764049586	2.605984842
ZNF549	2.778562909	2.787357807	2.754291277	2.862410475	2.77021447	2.695843499
LINC01419	2.713066602	2.573896784	2.681946748	2.688258191	2.672258046	2.708955181
GLRA3	3.010117875	2.750160812	2.946913239	3.024845766	2.913922574	3.457558162
ADGB	2.73201811	2.668780101	2.715857736	2.677146205	2.713800951	2.561028234
ST7-OT4	2.862539827	2.821734684	2.816270183	3.012167053	2.847163588	2.739839606
LINC00550	2.575699761	2.613361538	2.565712162	2.653165731	2.569450232	2.598852365
C7orf57	2.582110705	2.379888056	2.53064256	2.669391986	2.546308125	2.370334588
RAB9BP1	2.667287634	2.585773567	2.62277885	2.752602922	2.655817033	2.407413439
FLJ37786	2.776760191	2.842905666	2.695900124	3.488918156	2.787109366	2.764737506
SYT16	2.794985096	2.686497211	2.748796533	2.859353298	2.766482298	2.648167129
LOC101928893	2.738847263	2.664011377	2.711321804	2.746511712	2.694889849	2.93293711
LOC101929239	2.879741999	2.846787324	2.859043786	2.965557354	2.873038669	2.748321072
PROK2	2.835133923	3.34722517	2.85972123	3.351690964	2.920056557	2.841968013
PROX2	2.941012645	2.839301952	2.904853133	2.961170021	2.919639219	2.796342506
LINC01242	2.648766547	2.625893361	2.61676521	2.783353035	2.638165149	2.552673438
MOP-1	2.737045205	2.720517934	2.708283967	2.818586291	2.721503082	2.744772992
BPESC1	2.646009465	2.606219647	2.619247592	2.686668618	2.628861867	2.570550452
SALL1	2.863603509	2.720888172	2.813362567	2.934912433	2.828372914	2.794798224

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
C6orf10	2.71289623	2.582515004	2.667787778	2.797685946	2.690471398	2.497992034
MDGA2	2.712398273	2.616611394	2.672197663	2.780724827	2.686599115	2.615131391
CATR1	2.744841958	2.637610817	2.701919586	2.810964199	2.718511271	2.621818674
LOC100506731	2.928582255	2.803370553	2.866181603	3.108307125	2.900812525	2.807510175
LOC149351	2.700105012	2.633267055	2.668847968	2.728042961	2.660243164	2.84104151
PPP1R3A	2.809274184	2.700719109	2.772577056	2.823993903	2.776005091	2.777356497
MAGEB1	3.063056412	2.987191312	3.040795907	3.074464722	3.055054336	2.871481196
GOLGA6L6	2.847352592	2.789190378	2.817949721	2.905119908	2.838079223	2.681728318
CPXCR1	2.760286229	2.656681539	2.715262554	2.806192297	2.732559079	2.611230247
CRAT37	2.725899583	2.636673761	2.688909196	2.747019605	2.702839502	2.556729544
LOC101927089	2.817786683	2.695091414	2.773250616	2.852016614	2.785855615	2.741659088
SPOCK3	2.825063062	2.760720653	2.789716098	2.875212738	2.788536937	2.919783176
CTD-2194D22.4	2.901652295	2.851509525	2.883096636	2.916718601	2.898277097	2.658029058
LINC00314	2.597335102	2.558168999	2.57791477	2.584336902	2.574094575	2.586106471
LCTL	2.660135378	2.603989925	2.611374569	2.84230675	2.643584726	2.528805114
LOC105373460	2.763518117	2.628967015	2.72993353	2.768888457	2.729944777	2.678497238
C3orf79	2.859771833	2.854710687	2.851157041	2.847362192	2.850845487	2.819618225
LOC100133920	3.024718025	3.001955805	2.969439717	3.235805169	3.008277422	2.97671246
SLC25A21	2.902651231	2.834924786	2.862928226	3.030853287	2.882479001	2.807246109
IGHV5-78	2.80902542	2.611293117	2.765821719	2.802312389	2.788105139	2.478342432
LINC00645	2.798448388	2.91452352	2.75055983	3.314766533	2.824014374	2.7307956
PCDH15	2.634641764	2.584544342	2.604866937	2.660687596	2.621964944	2.418112323
LINC01212	2.796118204	2.687126422	2.762223102	2.81440886	2.767362887	2.729414943
RSPH4A	2.736022446	2.632981565	2.7123497	2.718253093	2.709645777	2.682761691
LINC01393	2.90709681	2.901459518	2.884289649	3.026493164	2.906430936	2.735121015
LOC105377421	2.630866982	2.565608678	2.590045538	2.72646037	2.601734234	2.662844945
LINC00343	2.774588594	2.602900041	2.72394143	2.802165364	2.742092441	2.570659367
LOC339862	2.707213279	2.598185938	2.645935766	2.932264735	2.683567138	2.580106194
CFHR5	2.752410619	2.70305864	2.721810331	2.841969248	2.733398573	2.708758401
HNF4A-AS1	2.713920955	2.718719915	2.697164419	2.771386258	2.71339773	2.578231576
TMCC1-AS1	2.838319226	2.719999847	2.795968374	2.894491991	2.81702035	2.600480013
ZNF90	2.879097436	2.807473764	2.864365355	2.921323841	2.864036518	2.791482043
CHIAP2	2.67426804	2.631484136	2.65002819	2.724421992	2.662840645	2.536388892
HECW1-IT1	2.652868803	2.635217649	2.625303828	2.720189143	2.636001126	2.597885282
GC	2.929513647	2.789881343	2.906845331	2.924388369	2.900771613	2.745010305
ANKRD30BP2	2.899924709	2.859994086	2.89036168	2.918810418	2.890096294	2.842999415
LOC105375240	2.731419286	2.603003681	2.684727966	2.777844087	2.701011456	2.576597743
LOC101928491	2.89135405	2.806195245	2.855262491	2.924369832	2.870560514	2.746578757
FRG2EP	2.829473091	2.617893187	2.782873388	2.814638852	2.7913688	2.628671285
MORC1	2.677019966	2.545625725	2.639866831	2.676127401	2.652684806	2.459377118
TKTL2	2.996019258	2.909711056	2.949323918	3.083829935	2.951421604	3.128279121
CLEC12B	2.887605597	2.857909702	2.85374561	3.000843929	2.874519938	2.819458001
GCM2	2.736405493	2.697450059	2.702302057	2.837158991	2.728410226	2.578445033
FSTL5	2.856472003	2.78159242	2.852532017	2.840005143	2.835783507	2.826618147
NKX2-2	3.494498701	3.021884178	3.461018543	3.225606635	3.441816284	2.866212127
LOC101929660	2.787290032	2.726804761	2.742633655	2.950277763	2.756963606	2.863421304
LOC401098	2.690898934	2.588414238	2.67696796	2.57954758	2.664931296	2.607453771
LOC100130268	2.947416083	2.78511229	2.882498556	3.093572746	2.91819209	2.767809274
LOC101060157	2.888406061	2.778432049	2.887017269	2.824388975	2.876491619	2.607414888
TAS2R45	2.68349219	2.559523916	2.644952034	2.723052742	2.649186521	2.653296247
GAFA3	2.767813711	2.707334441	2.73683629	2.830019077	2.743909751	2.737796942
CSMD3	2.945364336	2.76827256	2.905946153	2.980195033	2.903703823	2.887334451
PWAR5	2.751660586	2.663895405	2.712857617	2.860070604	2.721495789	2.839071057
ENPP6	2.787306837	2.801207223	2.757087054	2.982723806	2.712183706	3.77480429
SLC5A12	2.740154255	2.6800481	2.70506637	2.798505847	2.719874373	2.66891436
COX8C	2.71851438	2.678098325	2.692440572	2.7626733	2.706648597	2.563342332

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
LINC00630	2.843467918	2.726178326	2.812921484	2.79569625	2.805642364	2.835293439
VN1R3	2.926494638	2.789629379	2.867464863	3.041921282	2.883699943	2.932202003
LINC00558	2.678862996	2.604497382	2.643071329	2.730402851	2.651835516	2.62435031
TTYT15	2.963899796	2.808631889	2.909716344	3.036479223	2.950458243	2.521713493
LOC284950	2.738327345	2.657075198	2.696686185	2.794479415	2.7132023	2.60672359
LINC00862	2.966224045	2.900445171	2.938156602	3.016068878	2.950497154	2.858986913
MGC27382	2.631145668	2.577234787	2.610537553	2.656667755	2.609775109	2.612527489
DEFB129	2.955118345	2.837557739	2.905745938	3.064121163	2.933604975	2.731506457
LINC01500	2.701449381	2.645751865	2.680419584	2.708635157	2.682531258	2.600282782
MGAT4EP	2.965574435	2.811203892	2.932481	2.995348183	2.95225789	2.657115252
IGFBP1	2.860461163	2.835228045	2.823856973	3.018634741	2.813436832	3.315339456
LINC00529	2.756022605	2.74370684	2.740439918	2.783764956	2.756598645	2.55472465
LOC100131508	2.688478422	2.588616504	2.649005117	2.746860047	2.667532974	2.494128904
SEMG1	2.772965665	2.665045274	2.752297348	2.704242793	2.752115976	2.579457598
LOC101929454	2.988372778	2.741831562	2.935239574	2.953247303	2.946648267	2.755752825
OTX2-AS1	2.840421789	2.816292729	2.807226587	2.990036524	2.817465739	2.917594018
C12orf74	2.822187069	2.753148261	2.768920496	3.044616666	2.79886972	2.829956438
LOC105375273	2.753931097	2.635393397	2.709373963	2.819034003	2.734608804	2.498091843
PRG4	2.974572515	3.559369742	2.940281861	4.023931152	3.069963202	3.238727071
C4orf36	2.921583599	2.94957279	2.909169973	2.948015247	2.912447729	2.898376006
CRISP2	3.237600664	2.83654082	3.229681662	2.978307996	3.172073312	3.072530965
LOC497256	2.756183321	2.660488641	2.727047955	2.751056048	2.720571012	2.789211643
ZNF208	2.882136377	2.832798257	2.837959765	3.114130676	2.84965275	3.080471487
AACSP1	2.985539499	2.822985692	2.958305076	2.984247052	2.969066356	2.696602799
PMP2	2.717471463	3.031557285	2.735112021	3.046926831	2.720624654	3.431720669
LINC00901	2.84639844	2.736521953	2.810095219	2.888533207	2.822842022	2.701846065
CNTNAP3	2.773703211	2.801553596	2.774132448	2.826603366	2.739515333	3.261378791
ADAMTS20	2.803615056	2.716526148	2.779928246	2.797196659	2.786749569	2.622644025
UBE2U	2.819089784	2.74791798	2.787864679	2.851188639	2.783457877	2.830544684
RANBP3L	2.860399986	2.698075718	2.814372465	2.853577154	2.818017943	2.741533818
LOC57399	2.771496866	2.730199029	2.744465121	2.80599444	2.748853497	2.735263621
OR2L13	2.69078287	2.650420301	2.663951477	2.72258086	2.66907951	2.625689431
LOC101929255	2.787886373	2.626689095	2.737901034	2.830526318	2.75465266	2.623925789
LOC101928475	2.808329174	2.774744345	2.77560471	2.89199399	2.788696969	2.782249913
MYOZ2	2.910885533	2.848487519	2.87994194	2.998078804	2.862030179	3.278604821
NECAB1	2.705658259	2.916296651	2.687905976	3.038703106	2.728157114	2.713748511
LINC00588	2.753988243	2.746030413	2.73048657	2.809949481	2.737211797	2.751364501
TMEM26-AS1	2.726953704	2.679368991	2.703072571	2.751064149	2.708509361	2.69032255
SLITRK1	2.941418892	2.834182445	2.906737452	3.011203421	2.919204949	2.810455079
KRT40	2.807629882	2.678545904	2.778936863	2.767558631	2.770799526	2.80142775
ADGRB3	2.731311214	2.858642485	2.740904836	2.805135196	2.710553594	3.216084274
HAVCR1	2.943427611	2.931202517	2.924479114	2.983942305	2.94275077	2.735009763
BCORP1	2.916754973	2.807531945	2.874080299	2.955665979	2.885326329	2.890016702
DNAJB7	2.673290551	2.677241623	2.671880702	2.645061313	2.663310886	2.639851765
KIRREL3-AS2	2.991817041	2.884732141	2.954140841	3.107817976	2.962932208	3.033054377
SLIT2-IT1	2.892629557	2.766663545	2.859501342	2.898086032	2.870757806	2.697575215
HTR2C	2.861736533	2.717414638	2.819544339	2.90456614	2.824195454	2.783544447
LINC00895	2.798535199	2.842092075	2.788099548	2.851757421	2.790613045	2.812684568
LOC101927310	2.828918529	2.684039509	2.787306951	2.853542837	2.797823269	2.678640377
ZIM3	2.76386695	2.664451939	2.728527961	2.780977048	2.738813145	2.612872447
DTHD1	2.817651452	2.690657134	2.778428548	2.866355219	2.790320023	2.660647948
FAM186A	3.003352898	2.834006018	2.989179709	2.870411961	2.974178957	2.804051326
NAG18	2.921730815	2.897886157	2.913983662	2.928735736	2.898375841	3.068615157
DNAJB8-AS1	3.109186463	2.969895312	3.059630052	3.224999894	3.088357324	2.852638647
LOC441666	3.070012839	2.857203563	3.051327812	3.015381033	3.03326322	2.923153419
GTPBP10	2.908780759	2.846086198	2.883061069	2.922351836	2.903921796	2.63275628

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
NLGN4Y	2.783099948	2.740299734	2.750229725	2.86746563	2.773091903	2.645500551
CEACAM8	2.737718195	2.757683774	2.71554068	2.841530038	2.739549427	2.57462057
KLRC4	2.803569515	2.637788849	2.764241418	2.772064374	2.765152464	2.655338328
MGC4859	2.761424735	2.739930061	2.725871228	2.893037377	2.749815124	2.665228896
LINC01487	2.878464332	2.790727999	2.842985913	2.941836043	2.86275873	2.67379661
FAM230C	2.847117621	2.844942096	2.830962681	2.912017806	2.84249032	2.723920216
LINC00471	2.887043443	2.763947781	2.839533836	2.998022439	2.854846804	2.890025922
DMRT1	3.135715263	2.922315372	3.098076245	3.13452658	3.093212993	2.928943759
RUNDC3A-AS1	3.048867586	2.766623843	2.995013199	2.989124227	3.006317864	2.735946641
LINC00700	2.953806699	2.793186765	2.909316943	3.028895269	2.918222331	2.889188555
NCAM2	3.002594882	2.725600081	2.947994147	2.953511361	2.948757444	2.83735685
LOC101928583	2.723927207	2.627860825	2.698733434	2.711911386	2.701377597	2.580465805
LINC00487	2.916096832	2.805635571	2.904540548	2.873044545	2.894876637	2.845607175
SERPINB2	3.523377745	3.657551764	3.542655354	3.71267255	3.579562519	3.054796375
PP2D1	2.749735547	2.708477412	2.736177997	2.736963249	2.733010323	2.707219505
LINC00615	2.887815906	2.821315189	2.843815975	3.041853656	2.877444492	2.709969995
IFNA2	2.920500524	2.879017778	2.882071043	3.041214982	2.90633746	2.8261794
C17orf74	2.876162471	2.807896924	2.840051325	2.900232611	2.860283063	2.669021919
LOC101927358	2.806166984	2.796703688	2.80019783	2.778138192	2.794373532	2.781483154
SULT1E1	2.957709713	2.8100951	2.937843283	2.957667535	2.932762114	2.773758272
LOC105372969	2.748680074	2.629357618	2.702569869	2.830358766	2.71164952	2.741062718
OR8B2	2.899777343	2.75227006	2.82949401	3.078938803	2.864396292	2.786805426
MAEL	3.486676974	3.287133833	3.49531836	3.361676854	3.463914762	3.174804743
TRIM55	2.9250386	2.85295411	2.92300336	2.952591329	2.913290765	2.810449277
AQP4	2.853910768	2.780024998	2.820780915	2.916360454	2.809368548	3.092167842
LINC01416	3.056309117	2.892969726	3.013647979	3.106201293	3.020532859	2.940729018
LOC105374419	2.822685359	2.776733081	2.799437966	2.877538252	2.805726111	2.793942066
SLC38A4	2.821598762	2.735360577	2.779563489	2.904825223	2.790353849	2.803437277
CRYBA1	3.007035535	2.87116593	2.986137771	2.986146786	2.990055204	2.768979875
LINC01514	2.862363154	2.774462312	2.833080341	2.863105827	2.846850574	2.710641489
MAGEA4	3.075528225	2.966412048	3.090703537	2.942145184	3.071285095	2.755115842
ACOT12	2.820547838	2.749221822	2.781535252	2.910240119	2.796649033	2.827057822
GVQW2	2.868912191	2.789917335	2.860259159	2.779985363	2.839020008	2.920733946
ZNF732	2.669831972	2.632770209	2.647409991	2.689044227	2.653506535	2.582795626
FLG	2.859049798	2.761176261	2.842415862	2.753578278	2.836281613	2.709030297
MIR5188	2.942051433	2.849577104	2.907956403	2.992870964	2.941031858	2.546774111
KIZ-AS1	2.84469134	2.778924876	2.814089108	2.857662971	2.817556948	2.848058197
ABRA	2.788242607	2.968063652	2.806720519	2.869652838	2.817318344	2.717133397
PAGE2B	2.753636284	2.700633223	2.744548651	2.686077915	2.744205017	2.631860719
LINC01426	2.965418711	2.722598449	2.904942562	3.004730209	2.93092917	2.667239115
PPP4R4	3.063944716	2.949651645	3.046187756	3.028862957	3.01855544	3.311226124
LOC101928101	3.00568868	2.914613325	2.992194764	2.931287048	2.979572088	3.078571859
PTPRR	3.039535557	2.891098945	3.006349511	3.092486384	3.022371399	2.792083009
CNTN5	2.861247362	2.765423409	2.830029701	2.878462542	2.83957688	2.746683752
SLC39A12	2.904537982	2.738292598	2.84290859	3.115733766	2.868430827	2.861273098
LOC101928201	2.862907221	2.812813741	2.850371478	2.829495586	2.845683511	2.785309425
LOC101927069	2.935077715	2.924021244	2.918353963	2.995967097	2.920377163	2.980323026
C7orf77	3.291821382	3.254629549	3.271330906	3.375204779	3.291214574	3.213713252
LOC643711	2.813928672	2.781209288	2.797886775	2.812481922	2.806075914	2.638894179
LINC01352	2.850194893	2.89672973	2.836206626	2.939995384	2.857655218	2.693265206
LINC00560	2.821533142	2.800372154	2.794163596	2.899155839	2.802105262	2.866281664
LOC101928401	2.863736529	2.753775719	2.834406083	2.851230247	2.840147858	2.69348742
TDRD1	3.307435797	2.81355939	3.223553284	3.241671367	3.229695559	2.921113448
FLG2	2.850948704	2.965569134	2.837544294	2.996139202	2.863939399	2.751688109
LOC101929622	2.844202072	2.755689684	2.799147225	2.948500815	2.827804279	2.637935005
AKR1D1	2.958144937	2.770349887	2.848855953	3.61545802	2.865880315	3.72576157

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
OR7D2	3.289502412	3.215026798	3.264031482	3.406595731	3.246521454	3.550645239
CPB2	3.104473709	2.824023874	3.043835597	3.142930969	3.055091475	2.829489842
LOC101928539	2.735976079	2.714935672	2.710874601	2.794438053	2.723243798	2.656634725
LINC01527	2.691420479	2.548316502	2.683471558	2.574400624	2.661686991	2.594058667
LOC101929473	2.826989385	2.733696053	2.803286385	2.81335529	2.796283646	2.840317872
CDKN2B-AS1	2.946859659	2.810983089	2.911976039	2.959836961	2.910931761	2.920412663
GPR37	3.001893712	2.669252641	2.955566019	2.879453344	2.951629317	2.740531072
HRAT13	3.059636029	2.920924998	3.014025048	3.122277331	3.015242167	3.108457031
LINC00189	2.981669605	2.864716125	2.962539313	2.923917141	2.959792481	2.912070387
HFM1	2.759963	2.716757151	2.726635075	2.85984276	2.726464016	2.931938875
LOC101927516	2.908928854	2.853949039	2.884966326	2.893757028	2.888343719	2.824191891
BDNF-AS	2.689763357	2.59784992	2.649324662	2.743327693	2.657732451	2.678161883
ARL11	3.039089543	2.858133894	3.016167953	2.93976757	3.042037679	2.653434832
LOC283516	2.801761464	2.670993279	2.760623658	2.842346409	2.769969112	2.744414662
GPC5	2.843297868	2.96552852	2.824961145	3.070448277	2.849778425	2.866635872
EIF1AY	2.788608803	2.802725728	2.771060319	2.826171227	2.781443686	2.710436816
LOC286087	2.662060735	2.64754172	2.636824877	2.741302144	2.642880567	2.66868644
HTN3	2.86966756	2.784661107	2.854115615	2.851411944	2.842528202	2.891511091
SCGB1D1	2.839638446	2.784908659	2.8253304	2.813649556	2.822893454	2.751830985
LINC01468	3.141816736	2.87958856	3.111587738	3.038248016	3.102863077	2.802879661
NXPH1	3.624259257	2.761080355	3.617169818	2.931930917	3.527280115	2.656733747
GIF	2.929536443	2.839098112	2.878596694	3.054785303	2.910643322	2.736676786
LRRD1	2.696779421	2.598793281	2.651830119	2.792313417	2.660837671	2.763753026
GABRA5	2.92361121	2.841134873	2.893050524	2.957843007	2.903208475	2.772728453
LOC100129620	2.629859786	2.579961428	2.604545726	2.648156962	2.613315111	2.504241406
FANCB	3.07079639	2.836847852	3.024608445	2.991289654	3.039374753	2.721302302
PCDHGB6	3.007858841	2.933504195	2.974104493	3.04673496	2.994996481	2.788577821
DKFZp434L192	2.707470015	2.723117626	2.706075327	2.685424992	2.706023951	2.594231471
LOC101928886	3.082537633	2.963446418	3.025593727	3.212169304	3.073208499	2.749017596
LINC01361	2.819867824	2.771593927	2.796991399	2.836188606	2.805298931	2.728086719
GNAT3	2.981351184	2.807956551	2.953331444	2.990887811	2.951831114	2.879787036
LINC00210	2.794323667	2.658591493	2.738423717	2.933006143	2.777857943	2.528011808
IL9	2.843985773	2.815144523	2.818344338	2.891595556	2.830446077	2.692536886
LINC00624	2.738423241	2.667085011	2.728204086	2.689998074	2.728263339	2.555416174
LINC00973	2.811723512	2.688474779	2.77848465	2.839279661	2.772646821	2.885970506
LOC400590	2.624793927	2.567283911	2.601417765	2.660020023	2.60476393	2.58551016
FAM155A-IT1	2.834088437	2.71581198	2.79249764	2.872981169	2.806013669	2.732139033
RGPD4-AS1	2.883917429	2.745188074	2.841279761	2.906196397	2.872735105	2.518248161
PRO1804	2.803887906	2.804510196	2.785832526	2.938063438	2.766966029	3.257482403
PCDH10	3.129377956	2.858796039	3.088959301	3.038201374	3.081037183	2.884387003
LOC101928861	2.948186928	2.81310757	2.911044262	2.958330006	2.92531894	2.777690562
DMP1	2.862852159	2.820668923	2.840586785	2.894527501	2.857406913	2.687962664
LOC101928012	2.769080517	2.731702883	2.748689689	2.774309329	2.754681533	2.737843943
PLA2G1B	3.032945179	2.874062035	2.997343102	3.020121421	2.992916413	2.905731529
SLC30A10	3.104730537	2.936963841	3.0374032	3.291724458	3.086968118	2.7625986
LOC105370832	2.785180493	2.710767327	2.767713022	2.757638348	2.772386218	2.624269792
LOC105373738	2.916400874	2.839848215	2.892759277	2.959996411	2.908149207	2.700122515
WDR49	2.882565221	2.789179241	2.842635235	2.940512819	2.867918789	2.668713834
FOXR2	2.805206541	2.759967657	2.788786774	2.789474976	2.79547299	2.607158757
MTTP	2.958641075	3.107381113	2.944132097	3.190281371	2.981314385	2.855876698
SSMEM1	2.840929165	2.777521995	2.805902377	2.943579969	2.821035298	2.847235879
ABCD2	2.500597467	4.091493041	2.568637938	4.26025114	2.776798758	2.951815529
LOC101928995	2.805815472	2.754612742	2.774162761	2.89581306	2.793803398	2.702278616
PXT1	3.038937726	3.006028568	2.996871882	3.188514852	3.023508808	3.003305639
LOC101928809	2.611801446	2.601860154	2.584968762	2.694198812	2.594239837	2.626540654
MAB21L2	2.999600591	2.972788322	2.976758772	3.03238023	2.987676209	2.908538966

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
LOC101927346	2.95312469	2.823182062	2.908970881	3.025652047	2.928197581	2.795232953
CDY1	2.759612637	2.679389044	2.711915579	2.86681945	2.737180955	2.609782564
LOC100130964	2.808033474	2.71214151	2.77306969	2.83031901	2.786350345	2.645663402
MIR663AHG	2.729922579	2.680999001	2.712856858	2.716222791	2.724964322	2.526453277
SERPINB4	2.924867326	2.742058692	2.914748946	2.896221271	2.874084952	3.103330733
BTBD8	2.824639334	2.743928955	2.78988624	2.863549339	2.807717431	2.591603158
UBQLN3	3.182206803	2.974704828	3.140811751	3.19859534	3.160620763	2.892730193
NXNL2	2.813030352	2.618380606	2.763988428	2.849411686	2.765340022	2.926233516
ANKRD45	2.862518792	2.772731318	2.840779274	2.87444999	2.843700741	2.721296947
PRO0471	2.67497854	2.579895307	2.645810786	2.656883879	2.643546948	2.644626902
LOC100506016	2.760958774	2.68793167	2.72591809	2.822191147	2.734982813	2.71670192
UNC80	2.896615712	2.79444388	2.861356336	2.932795433	2.868072405	2.801937802
CYP51A1-AS1	2.937649637	2.823769329	2.890461201	3.000221945	2.897252526	2.999645949
LOC100507537	2.681937201	2.602701665	2.649860657	2.743283512	2.661601029	2.580757908
LOC101929050	2.782959842	2.751458329	2.755613346	2.879783364	2.775215377	2.69639045
LINC01020	2.883183185	2.757969274	2.836837313	2.952972082	2.856691399	2.762982455
KRTAP9-3	2.819835056	2.733104414	2.793392106	2.8070324	2.813235783	2.477439265
TBX20	2.945191014	2.942122294	2.939238373	2.958966073	2.947295855	2.788738446
LOC101928505	2.835775815	3.047571622	2.840326387	3.085316212	2.870986086	2.812128608
CCDC89	2.914718521	2.789465334	2.865419646	2.995986994	2.861476281	3.138038482
PCDHGC5	2.965855603	2.940996282	2.92816064	3.107645983	2.954139956	2.8843326
LOC286370	2.811747168	2.747372433	2.786466578	2.841234387	2.798350966	2.609546325
PEX5L	3.10550802	2.923679461	3.082549413	3.038801754	3.066313043	2.965551337
TPH2	2.907790893	2.816678631	2.870380898	2.970249191	2.881161616	2.799232578
HNRNPA3P1	2.91068515	2.802781727	2.885326035	2.892881909	2.875352764	2.959000072
ISPD-AS1	2.83208377	2.767270631	2.804704591	2.897259844	2.801865732	2.95729924
LOC101928519	2.661726593	2.64790969	2.634652841	2.762680586	2.622824057	2.993457377
FMO9P	3.100062424	2.904471521	3.065108287	3.062976808	3.068762278	2.864851473
FLJ38576	2.880279727	2.783708593	2.850683255	2.89986138	2.858668374	2.722063128
LOC101927377	2.907873236	2.813974541	2.869995124	2.979597977	2.892755695	2.708164796
AXDND1	2.845199539	2.728841196	2.814197647	2.871046455	2.827257048	2.659149768
C3orf56	2.950666408	2.864447504	2.927858436	3.014478259	2.943837269	2.686857961
CCDC65	2.905002055	2.812992804	2.866691693	2.987357564	2.884647862	2.812076288
LOC440346	2.741087573	2.758289926	2.71999828	2.846624749	2.728811607	2.814278163
LOC101929517	2.945883072	2.789923232	2.914395294	2.902665244	2.916758266	2.744936814
MMP20	2.980088797	2.878817812	2.957705419	2.989848618	2.956714903	2.87330099
OSTCP1	2.78703483	2.724604773	2.760179398	2.805516444	2.767313853	2.745483445
CDH9	3.031802708	2.82663108	2.979560259	3.022951605	2.994766436	2.738731882
CALCB	3.003350212	3.846971397	3.165370314	3.183864112	3.165597954	2.932143377
TEX41	2.854038893	2.821167933	2.823828736	2.943649851	2.836603252	2.828750962
ZNF29P	2.864007938	2.80883287	2.841666188	2.885474001	2.843948661	2.864552073
RIT2	3.007751505	2.858356624	2.959076572	3.068953877	2.972124858	2.90985421
WFDC13	2.993483743	2.967366258	2.973651466	3.038332077	2.998997721	2.721082852
GCG	2.890461915	2.790042499	2.846450017	2.99510932	2.869483017	2.785628845
ZSCAN4	2.882683605	2.810297057	2.842874191	2.946448228	2.852574664	2.866297272
IL2	2.793625568	2.711161941	2.759877926	2.806208255	2.769565709	2.705371811
DRD1	2.955302012	2.831215834	2.910856775	2.99146938	2.92907626	2.713051223
LOC105376037	2.845016126	2.870511752	2.838633824	2.869647936	2.858557794	2.81044513
GRIK2	2.87953421	2.741705515	2.834748606	2.914430079	2.84603461	2.795909132
LOC101928298	2.849712392	2.818938042	2.813144931	2.983504544	2.835417139	2.785935828
ADAMTS9-AS1	2.86003973	3.259797396	2.812511508	3.650894784	2.880272545	3.537944946
LOC101930028	2.745657992	2.635824871	2.718637234	2.721827715	2.71950095	2.630136621
TRIM64EP	2.633143228	2.592699822	2.616888802	2.609868727	2.617372042	2.517828766
SGCZ	2.933644464	2.83451922	2.903023882	2.962501313	2.912420939	2.807122759
LINC01360	2.838980151	2.7443852	2.79366175	2.927263382	2.811007032	2.773522408
CLVS2	3.051384711	2.864289365	3.015018645	2.992961378	3.037219608	2.528945404

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
OTX2	2.810091028	2.712027525	2.765017961	2.89998206	2.7870875	2.696115181
LOC400541	2.710670161	2.721519263	2.694686876	2.7741578	2.703425826	2.698770952
KCNJ13	2.886156486	2.795285065	2.862535929	2.864397291	2.854293118	2.893717766
CAPN14	2.767431587	2.723982463	2.758611935	2.730037941	2.75786384	2.645586527
GTF2A1L	3.036227187	2.96419634	2.982361944	3.148907759	2.993925722	3.109271816
AKAP14	2.781445288	2.709203821	2.745978838	2.893056586	2.765889145	2.630618358
B3GALT2	2.683378856	2.688678018	2.65311997	2.782809525	2.666939965	2.707162196
CSN1S2AP	3.034670835	2.960999015	2.999772269	3.126806092	3.002011564	3.172379822
TEX15	3.012028365	2.829433062	2.954548849	3.086043	2.97336868	2.909723681
LINC00323	2.7249227	2.684282022	2.719695741	2.682188109	2.706958329	2.71198148
LINC01149	2.850961538	2.695736517	2.794140282	2.967902572	2.811173541	2.863878936
C2orf80	2.981712658	2.805210064	2.929359831	3.091736913	2.944944584	2.889213748
ADAM3A	3.007568054	2.875782741	2.973940102	2.985974616	2.979880657	2.968453892
SCN1A	2.971479398	2.847110257	2.943888841	3.029084195	2.95267068	2.742843283
C18orf42	2.966895371	3.076359471	2.961900535	3.057273726	2.981739665	2.774040163
IL31RA	2.86445465	2.789075862	2.840275081	2.868102415	2.849342865	2.69976455
XIRP2	2.92236079	3.003179673	2.939271042	2.958243256	2.94114927	2.83273767
LINC00309	2.778753765	2.689818296	2.752339774	2.772433842	2.764840815	2.568476182
LINC00158	3.056565627	2.909284378	3.016634784	3.116348979	3.04680007	2.785617748
SYCP1	3.14561538	3.224093606	3.151641833	3.350769176	3.152714064	3.180577604
LINC00328	2.883785505	2.778300766	2.875762187	2.820207513	2.870870094	2.693292274
C3orf30	2.990196748	2.848308822	2.958495775	3.007872734	2.965746371	2.824850616
OR5K1	2.844906741	2.706978794	2.798539311	2.868103877	2.821550956	2.567285729
LOC152225	3.145111649	3.121227636	3.14480897	3.156826754	3.156863574	2.897302873
GABRR3	2.924461365	2.864706847	2.904569374	2.934533431	2.914456074	2.785246786
FAM46D	2.866323993	2.714300186	2.808936172	2.991771588	2.83334842	2.793849825
MMP21	2.760340127	2.704555913	2.727000158	2.806218898	2.735117228	2.842420008
LOC105374895	2.987256652	2.863890068	2.939019718	3.035518568	2.950143971	2.963449326
LOC105370697	2.750394469	2.711931984	2.723935848	2.825552824	2.730854756	2.708101319
ARPP21	2.888839375	2.788107388	2.844215436	2.947126001	2.865905768	2.692521776
EDDM3A	2.948950108	2.839023974	2.911106614	2.983577155	2.914938257	2.957964051
ZNF417	2.802596306	2.682185162	2.78034888	2.732737601	2.774447221	2.77499648
FRRS1	2.720330117	2.685634301	2.709267947	2.737024983	2.699026664	2.803917758
GYPA	3.011135226	2.912803853	2.970957406	3.045712485	2.989830959	2.818774481
DCLK3	2.844357316	2.776680188	2.817025392	2.841245725	2.823006132	2.703309456
LOC339468	2.896385533	2.815741438	2.872398688	2.889534356	2.872148211	2.850100349
ALS2CR11	2.806136584	2.730410613	2.770706419	2.873999197	2.779285802	2.815010244
CDR1	2.737037362	3.174672069	2.746408729	3.23676117	2.800918896	2.926965223
LOC101928167	2.878238429	2.87580775	2.862342618	2.925730889	2.871045501	2.872265456
LOC285500	2.949248306	2.986681727	2.915446417	3.145650705	2.942275218	2.982854775
ZBTB8B	3.020652543	2.963198714	3.01193347	2.999219607	3.00524696	3.001793129
EYS	2.726898779	2.872851494	2.696625593	3.105096584	2.737556731	2.824904397
LRRC38	2.762903071	2.694989217	2.728819871	2.842123431	2.741315446	2.71702858
SUSD5	3.044012424	3.274418738	3.107514828	3.03197066	3.097505451	2.998211228
TRPM1	2.805735474	2.802927407	2.771011666	2.939296449	2.802410104	2.646094074
KRTAP19-1	2.930312364	2.789738891	2.878879954	2.983691056	2.881809893	2.976104126
LINC01613	3.174963912	2.953398764	3.13082631	3.201180477	3.140502514	2.959103355
DPY19L2P3	3.06581233	3.098161051	3.026619558	3.280118016	3.041636344	3.312713589
LOC101928273	3.062561372	2.914942999	2.99123573	3.237302576	3.001654759	3.314922162
LINC00606	2.917415496	2.831122263	2.876337015	2.985152684	2.901033374	2.696336544
ZBPB2	3.07194877	2.891210873	3.023779659	3.114848983	3.021208009	3.161283432
NKAIN2	2.964791477	2.911157185	2.924280115	3.065048034	2.909119432	3.41272624
RSU1P2	2.923020731	2.782077986	2.882831143	2.955146974	2.906342439	2.619781516
FLJ21369	3.003448374	2.834407001	2.980544868	2.91027988	2.964202018	3.008433091
CPA6	2.981549689	2.765728475	2.976312944	2.813149616	2.952247054	2.704228972
LOC101928823	2.745998675	2.601043191	2.705256539	2.758408085	2.711350223	2.631312689

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
ZNF28	2.806682947	2.69046052	2.784228176	2.740584334	2.789433481	2.529951512
SEMG2	2.698597037	2.722099346	2.676570962	2.797874821	2.696586148	2.544722457
DCAF4L2	2.810742358	2.822170769	2.798316586	2.842703073	2.80718094	2.700309571
DLGAP1-AS3	3.027366265	2.911986592	2.990770446	3.05801395	3.006577003	2.837343882
SLC8A1-AS1	2.960510695	2.874981472	2.922874568	3.027239025	2.9380576	2.849934879
ERICH5	2.903962156	2.896999421	2.920930456	2.853890169	2.900893197	2.853634135
SPATA31C2	3.014247226	2.944246311	2.996922512	2.972501753	2.999677012	2.891601359
LOC105370549	2.950107956	2.987292695	2.928260267	3.075943663	2.942461764	2.966511128
DIRAS2	3.025494103	2.700613317	2.956723573	3.050385678	2.939948372	3.235009451
EFCAB5	2.963254152	2.841108615	2.926448537	3.029034593	2.931113843	2.920317581
SPATA1	2.916042118	2.932004839	2.933461804	2.851615754	2.899614202	3.130327774
SLC6A15	3.092541315	2.907384516	3.050728791	3.120133277	3.056914418	3.028598133
CLCA4	2.973259032	2.82885509	2.927868425	3.102391728	2.831429462	4.499126113
LOC729307	2.829875514	2.770653026	2.796190971	2.901191316	2.789944463	3.064331358
GSC2	2.900167549	2.842032717	2.855881982	3.018860609	2.890646751	2.706362642
FAM45A	3.007818769	2.947932452	2.983378673	3.004554714	2.99820552	2.865694897
CNTN6	2.930867144	2.93328029	2.901740274	3.090201661	2.91143622	3.047371649
OR9A1P	2.932081745	2.873653101	2.900856805	2.978297859	2.923648536	2.738360585
WDR17	2.887331582	2.705568204	2.841998107	2.90491893	2.806997272	3.399783566
EGFLAM-AS4	3.181212824	3.021516393	3.155195807	3.103440887	3.154894016	2.94523251
LOC101928196	2.965647195	2.854674181	2.932467061	2.989882062	2.941037206	2.850314703
TEX12	2.787741747	2.7795467	2.768296968	2.810596719	2.772664304	2.849878627
LOC105370629	2.964458527	2.804755345	2.91878494	2.959114305	2.934791287	2.751541508
LOC101929224	3.118390502	2.944775001	3.049080494	3.23616532	3.081430554	2.862474682
POU6F2	3.022951476	3.028715961	3.021270724	3.013404852	3.026408232	2.835711173
LINC00518	2.915228885	2.772723397	2.89172887	2.927376448	2.892572451	2.681880141
ANKRD1	3.056352042	2.91135717	3.012486998	3.107153318	3.028278826	2.885759383
MAGEA6	3.83509184	3.012079677	3.81227821	3.263822998	3.747688069	2.845922966
CRCT1	3.291069197	3.259403581	3.283894797	3.31418965	3.287240512	3.110390799
TMEM26	2.866900576	2.728042062	2.818011459	2.945413185	2.80739787	3.163695838
LOC102725116	2.699082663	2.639733017	2.675278051	2.710793862	2.677533527	2.663515011
SLCO4C1	2.960693923	2.818778538	2.918172223	2.999594452	2.931072705	2.904810629
PCDHB8	3.314822885	3.185083979	3.310552041	3.164039268	3.292411204	3.160337347
LGSN	2.846610839	2.694700358	2.79951521	2.94378111	2.803143855	2.813104262
CST13P	3.015200206	2.908572092	2.967717499	3.118026441	2.998835567	2.822090266
LOC101928553	2.871811198	2.776789147	2.846539794	2.867862329	2.86002716	2.591723251
DDX11-AS1	2.796430994	2.686195935	2.756693299	2.857834113	2.775790594	2.613243422
TMEM155	3.40621256	3.314354427	3.361422846	3.480883011	3.399052096	3.150944764
C9orf84	2.919892783	2.769054773	2.88209102	2.911810555	2.88764622	2.810232107
ZNF804B	2.91043619	2.824148067	2.873576696	2.946195929	2.873158275	2.963038556
ATXN3L	2.954172518	2.855314117	2.917776829	3.051755472	2.950656393	2.628671937
LOC101930149	3.104821543	2.966854009	3.05780641	3.174687223	3.086678012	2.844273988
ALB	3.148972692	3.012655146	3.134874674	3.15356185	3.086510853	3.64379533
TPTE	2.888556434	2.689379218	2.847924204	2.876773363	2.838963282	2.879703623
CFTR	2.920270715	2.825238075	2.880783508	2.955153362	2.884128717	2.947148392
USH2A	2.777556418	2.777070222	2.765626991	2.768531157	2.766396821	2.680313658
KRT6A	3.725440158	3.292477746	3.761326316	3.257624253	3.704180018	3.028015991
LRRC31	3.995201463	3.043790883	3.929631831	3.350912191	3.861350825	3.402545339
HYALP1	2.784366581	2.813320823	2.775749628	2.814150614	2.782320198	2.712416105
SUGT1P3	2.826468141	2.757177885	2.804029488	2.836702588	2.787461844	3.128343812
LOC101927907	2.982714347	2.856186284	2.943847849	3.032644229	2.95771386	2.825812275
LINC01538	2.808773701	2.669397064	2.752990517	2.920892135	2.783717339	2.620103884
LOC101927363	2.938134997	2.81548698	2.887288328	3.032157467	2.908237014	2.805460489
FSCB	3.054993643	2.875660317	3.010991825	3.090767308	3.038408675	2.698843522
DEFB121	3.058715173	3.057714053	3.037115055	3.129618752	3.06229532	2.852525782
MAGEE2	2.916937925	2.816633898	2.877371865	2.937302328	2.872524781	3.033381387

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
LHCGR	2.673380675	3.665337981	2.726960343	3.726972827	2.820322298	3.280600971
FLJ41455	2.935287587	2.530833188	2.927560399	2.509362662	2.880612214	2.544687858
AMELX	2.896800042	2.854539997	2.8750851	2.903107106	2.884119132	2.77199067
LINC01395	2.998744375	2.883576743	2.97151259	2.949805076	2.971448919	2.90311456
LOC101928847	3.023163118	2.927552884	2.969967318	3.164126634	3.008778684	2.821726141
LEMD1-AS1	2.884663078	2.803251081	2.838577327	2.98380353	2.86462989	2.695745548
APOF	3.179012196	2.909722857	3.101539113	3.223758254	3.123472793	2.999957439
LINC00301	2.868565344	2.751873934	2.833217206	2.85750354	2.835310449	2.848164232
LOC100996404	2.7521809	2.741973972	2.722269833	2.8470279	2.738781566	2.716365863
LIPJ	2.855789516	2.854996157	2.828153834	2.931993166	2.832597172	2.915842256
COL6A5	2.930024433	2.816022336	2.882033603	2.981443499	2.900612154	2.785197732
ST7-AS2	2.831780701	2.749768609	2.803324043	2.844741074	2.81866149	2.62442146
LOC101928833	2.939149535	2.861608812	2.908175706	2.993556596	2.917484365	2.840860351
LINC00889	2.971393009	3.267439309	2.95112506	3.422360418	3.008036972	3.065614908
RAD9B	2.840819884	2.75832408	2.801088356	2.901891777	2.814981364	2.795617955
PPP3R2	2.920530187	2.79321035	2.866458276	2.992688025	2.880618648	2.890254527
FUT9	3.128033744	2.820793045	3.095982522	2.927476403	3.040802388	3.412577025
LOC101928161	3.058148631	2.863234003	3.005925606	3.072710533	3.01234365	2.949034234
RXFP1	2.985467182	2.83171865	2.938528777	2.996092677	2.957722587	2.777332553
PMCHL2	2.940996321	2.813996034	2.907671973	2.964809328	2.918333732	2.790076634
LINC01102	3.001026021	2.913234691	2.981651661	3.019508222	2.985741073	2.808889659
ZNF804A	3.606094131	3.052459785	3.503100102	3.420988127	3.515887245	3.143471
NOX3	2.944916396	2.847850627	2.921734232	2.947314222	2.924547098	2.819431615
MROH9	2.806716967	2.702862092	2.764598672	2.848798215	2.778741426	2.69036381
FAM9A	2.843331312	2.832574551	2.822988461	2.881217802	2.829808203	2.768640421
TLL1	2.885318701	2.762500047	2.844625704	2.895485764	2.846860115	2.893248533
ERICH3	2.935443425	2.700211458	2.920224262	2.779192815	2.879519153	2.991171143
LOC101929210	2.759207564	2.695549784	2.728189568	2.868157984	2.747066475	2.650412758
LOC101929762	3.032594622	2.925816796	3.012567002	2.945365731	3.006726872	2.911948035
ETNPPL	3.015272077	2.933699638	2.999022633	3.052884597	2.990727034	3.02089901
MPP4	2.894781656	2.813463228	2.85858451	2.953923082	2.865047915	2.895426113
MLNR	2.969650189	2.827155541	2.917140111	3.04502303	2.94942333	2.740673657
DLG1-AS1	3.149106576	2.983275368	3.098939746	3.162774918	3.116294366	2.96339448
LOC100507201	2.787906829	2.712354508	2.752273686	2.820929241	2.768779915	2.603650313
SLC25A53	3.047623143	2.887633345	3.012183333	2.997750605	3.022433467	2.812638677
LOC105374928	2.87408161	2.884987833	2.860702151	2.899284696	2.870025471	2.747744906
NRG1-IT1	3.098007868	3.00704426	3.072162716	3.092002971	3.080514694	2.95808613
SPDYA	2.976315695	2.818655205	2.94191443	2.970851064	2.946253461	2.789528
SCN9A	2.790030845	2.992423668	2.749970146	3.242708074	2.790453933	3.173938045
LINC00051	2.891961828	2.751712537	2.849426828	2.94043169	2.865772225	2.706612813
PTTG2	2.925088656	2.82854757	2.891243022	2.975817807	2.907075091	2.793343836
PARK2	3.020521607	2.957642041	2.972003669	3.155586977	2.997529658	2.94956773
LRRC74B	2.835713383	2.756221128	2.815390559	2.832381478	2.818122401	2.714102583
LHFPL3-AS1	2.890358861	2.802776404	2.852802091	2.962860767	2.86700123	2.853449318
GABRG3	2.947812142	2.880303342	2.906152145	3.039487033	2.916717916	2.980739378
C12orf40	2.938477	2.874141205	2.910347769	2.992381895	2.91418401	2.938801878
OR7E2P	2.791721322	2.740664062	2.758946775	2.896541198	2.77723156	2.675205898
LOC100288590	2.847220698	2.740330893	2.813470528	2.819715709	2.822532996	2.655756562
MYH4	2.87188395	2.882331513	2.854117978	2.958561058	2.875430332	2.743335364
ISL1	3.21085665	3.253842903	3.218370165	3.262161434	3.225332411	2.973783938
UNC13C	2.914421781	2.912430179	2.861530289	3.162956885	2.899697744	2.892070002
LRRC7	3.003824513	2.903443119	2.964496605	3.033503876	2.97666311	2.970125515
LOC285766	3.060420252	2.958748291	3.021839732	3.150896556	3.037421816	2.964173615
LOC101929694	2.911566405	2.721990939	2.855369356	2.99847498	2.869714924	2.852207278
STXBP5-AS1	2.957096643	2.878518355	2.935406797	2.929264607	2.936225712	2.83797984
DPH6-AS1	2.847363857	2.824980626	2.808325103	3.023377786	2.839091818	2.729363926

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
P2RY1	3.07663079	3.038904094	3.056622888	3.122182684	3.059239378	3.020577616
ROBO2	3.404801395	3.089791176	3.381036726	3.261883268	3.366588519	3.012665282
LOC441454	2.904163942	2.856936946	2.897180679	2.858536856	2.903133612	2.679231465
LOC100128922	2.905495421	2.735123898	2.859350251	2.889466244	2.864718744	2.805395751
GABRG2	3.19818591	3.088269476	3.156391721	3.248315975	3.169556751	3.143054524
LOC100505784	2.913321482	2.785725981	2.887495082	2.870760576	2.895501298	2.626443617
LOC100996251	2.870034548	2.922702185	2.829972823	3.136180464	2.86986903	2.893286892
LOC101928326	3.092970145	2.989921625	3.047666321	3.158117531	3.063388163	3.050039698
LOC105377276	2.91172183	2.872815404	2.86542968	3.139641391	2.899153751	2.849414419
LINC01097	3.055242541	3.047677296	3.05465399	3.009268916	3.055078962	2.870849313
LINC00629	3.069333507	2.90091347	3.031312011	3.144626118	3.037201682	2.977713636
FLJ31356	2.963197965	2.917028914	2.940193293	2.99035894	2.951274774	2.804782179
LOC101927797	2.838028239	2.752887073	2.800104251	2.910881057	2.817210012	2.754848918
SLC26A4-AS1	2.878970531	2.795565879	2.856490274	2.879709791	2.851493849	2.817534837
LOC105375875	3.289857118	3.057324524	3.223579303	3.474755324	3.258746297	3.106140808
FAM216B	2.963461081	2.863502671	2.946907575	2.907951421	2.948195964	2.78188159
AADACL2	2.965372231	2.840692917	2.894941373	3.12770677	2.932038051	2.842075528
SMR3A	2.951976368	2.870823295	2.915731564	3.033874132	2.926730555	2.888385827
LINC00486	2.921619932	2.846761194	2.88888738	2.984151475	2.904969094	2.788168767
PNLIPRP3	3.18080985	3.012152646	3.086640116	3.750545085	3.124002715	3.494499596
LOC100506498	2.929531643	2.836544534	2.899950892	2.968404053	2.900938626	2.928942057
LOC440117	3.092562607	2.889859794	3.038637675	3.124270145	3.055106104	2.939202052
PRO2949	3.001115048	2.926335886	2.957836489	3.086282434	2.974590154	3.003156429
ARHGEF7-IT1	3.076163435	2.956343537	3.034850632	3.140212084	3.048930551	2.97925014
LHFPL3	3.261950476	2.960256241	3.188066641	3.337138469	3.206679178	3.143744137
IL17A	3.069816109	2.985667237	3.025514159	3.17451811	3.050047963	2.869343161
HEMGN	2.888439191	2.857469073	2.864243516	2.971261646	2.878443816	2.779376802
LOC285556	3.085997617	2.863653084	3.046429074	3.080686055	3.052271181	2.787735264
GAD1	3.479661264	3.091719475	3.468443641	3.231534905	3.44401631	2.901421159
MAGEA12	3.589850501	2.833283877	3.545908583	3.170668482	3.494604335	2.90017088
ANGPTL3	2.91115514	2.849644968	2.881292801	2.953343564	2.898500934	2.760723862
LOC101929153	2.903387741	2.829897345	2.881339354	2.9179339	2.888730525	2.743062913
OR5J2	2.964433658	2.941311393	2.931974551	3.057653251	2.959317306	2.81404279
LOC101928702	3.042357734	2.833562859	3.014452753	3.029441755	2.991847327	3.131552867
ANP32D	3.113407056	3.044309559	3.085496965	3.082613074	3.096519339	2.808469799
LOC646241	3.122891849	2.919034476	3.062541872	3.23057731	3.10383578	2.687470426
NAALADL2	2.847316197	2.687317422	2.810657386	2.823819977	2.81237964	2.727440609
SH3RF3-AS1	2.845611705	2.882820471	2.83337634	2.859878573	2.854214244	2.559225514
LRRC37A7P	2.91826604	2.831665939	2.889018503	2.966148272	2.900671401	2.884401887
ZNF852	2.7401943	2.764035512	2.713365345	2.861731823	2.722407962	2.884325436
STXBP5L	2.915993644	2.791596497	2.864207523	3.005649002	2.891265368	2.694330576
PKD2L2	2.918502534	2.920471002	2.91705467	2.88903553	2.918011827	2.779102678
EPHA6	2.849337284	2.775486316	2.811939568	2.93368608	2.828904264	2.781641109
CAPSL	3.850927064	3.281073958	3.795201237	3.508965163	3.783579895	3.222528211
KIF27	3.051339434	2.823431622	2.995390919	3.076304667	3.019253714	2.845583294
FAM9B	2.929972111	2.824314765	2.895065483	2.94642874	2.909085563	2.763998251
LOC102724201	2.979727494	2.810122593	2.931938308	3.020174721	2.943968848	2.835586586
LINC00935	3.020837454	2.926875031	2.989308623	3.076149861	2.998064447	2.975601916
LINC01448	3.01528467	2.841772406	2.95481706	3.098881658	2.985888844	2.72989672
LOC105379143	2.805226407	2.819249368	2.782905738	2.899718271	2.792150346	2.805728544
ZCWPW2	2.948764045	3.055244991	2.926017769	3.199704379	2.954215163	3.143039846
TMEM52B	3.718457596	3.220907517	3.645913724	3.402524046	3.653954388	3.222391002
NPVF	3.038493642	2.95971912	3.024640112	2.996728774	3.020554351	2.988717775
FLJ35816	3.060040701	2.914360714	3.013058947	3.1330861	3.029980328	2.880984624
HHLA2	2.912443181	2.79752544	2.862948443	2.995585296	2.890080378	2.708575748
DOCK4-AS1	2.928169719	2.745869191	2.88392609	2.937310278	2.878310427	2.973946819

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
NEUROG2	2.95704849	2.975402451	2.970198761	2.921345753	2.96222385	2.813155126
RNF152	3.133927845	3.003731741	3.089371749	3.206174154	3.114901211	2.941273317
CDH10	3.261191978	2.961658448	3.239266041	3.101236647	3.217016383	2.981347398
ZNF441	2.964128644	3.032683375	2.958102269	3.077347775	2.958452779	3.2964211
SERPINB11	3.070171447	2.922303009	3.010944689	3.207299756	3.051281615	2.764568713
THCAT158	2.997223413	2.925247263	2.96618865	3.025240137	2.982791879	2.761160462
C15orf26	2.939076849	2.847443296	2.893591245	3.092578603	2.923806134	2.840838653
LOC105375483	2.989823117	2.890488917	2.950746547	3.024140882	2.965285498	2.865789649
LOC729083	2.815905358	2.710597265	2.779321299	2.833562937	2.794090081	2.717629615
LOC102724938	2.899291217	2.797041548	2.863072933	2.911897387	2.874133055	2.7860371
LOC101929261	3.11732516	2.956245039	3.075658812	3.177852683	3.07954596	3.111426862
KRTAP2-1	3.133582216	3.035290442	3.091082728	3.241289232	3.116435667	2.987862762
LINC01449	3.057611054	3.01443585	3.032970929	3.12414224	3.051618772	2.944191345
LRAT	2.975810532	2.855462915	2.950628524	2.968795512	2.940103547	3.007862517
MSH4	2.892827031	2.770035899	2.860869469	2.902127098	2.862582505	2.822704044
LINC00240	3.145290982	2.873463851	3.110184917	3.007869751	3.064636623	3.430940142
RTP1	2.9394078	2.839730381	2.896444316	3.008121686	2.908253973	2.912333034
GPR1-AS	3.084277396	2.973490868	3.059702936	3.075066092	3.055370448	3.064944794
LOC101928417	2.98038305	2.811906404	2.94613738	2.964177808	2.943370561	2.945352241
OR1A2	3.023279419	2.882143267	2.977358535	3.107938224	2.992631897	2.898542505
GPR82	3.182287194	2.948384667	3.137585922	3.14766016	3.148758851	3.015479539
LINC00298	2.92436419	2.809732953	2.879510362	3.00394008	2.895787586	2.849667959
TRDN	2.726187457	3.587515125	2.765767836	3.613979196	2.819586668	3.637297751
LOC101928943	2.997710016	3.018533412	2.983546898	3.076681905	2.991474295	3.005677032
CNGA3	3.003205993	2.808822688	2.953686511	3.035387852	2.96471861	2.824794103
SYNPR	3.113178412	2.976537456	3.059804462	3.265788075	3.081464846	3.035061814
FREM2	3.388606989	2.997306177	3.341906301	3.244939534	3.304959964	3.445487172
CCDC181	2.980991814	2.865202316	2.947579555	3.01184346	2.95164079	2.935300043
BTF3P11	2.731875088	2.740936158	2.711325727	2.830448168	2.721002397	2.774339312
QRFR	2.945898967	2.812187488	2.899126169	3.054629146	2.918917243	2.840053738
MYT1L	2.915873204	2.816923203	2.87067421	2.97553938	2.889128058	2.832934592
BRDT	2.946872243	2.991521377	2.947667388	2.976752551	2.952905965	2.815308572
TPTE2P6	3.074653319	3.00922138	3.071197469	3.048194205	3.053368642	3.167476813
OR6B1	3.114678638	2.946540764	3.071359227	3.169579113	3.08301342	2.964145761
LOC101929512	3.031415379	2.888256652	2.991265278	3.063941095	2.985275349	3.088064509
LINC01088	2.954773045	2.948341058	2.905855521	3.236358795	2.929928799	3.165074752
ANKRD44-IT1	2.931375223	2.762547846	2.896038306	2.864272149	2.902423907	2.69865791
LECT2	3.080311069	2.889557383	3.041102893	3.108329291	3.038906942	3.001341099
PLA2G4E-AS1	2.868052682	2.76188729	2.843955778	2.851701586	2.850299504	2.741778696
TCERG1L	3.342817811	3.061683483	3.286848614	3.336016563	3.305963794	2.952103677
DLEU7	3.09416769	2.966237899	3.059045668	3.108295291	3.057611076	3.09954075
NSAP11	3.287577526	3.129785505	3.229669946	3.380697275	3.254133204	3.081724899
LINC00543	2.981974959	2.87047103	2.952527713	2.990564547	2.976297832	2.594651453
RBM34	3.252859698	2.904088701	3.185423473	3.163549196	3.219667164	2.579523359
LOC102723809	3.056228913	2.941506218	3.009411104	3.082114654	3.037543194	2.738801599
TEX36-AS1	2.821904022	2.737835146	2.778721118	2.903177091	2.789414115	2.837833958
LOC101927660	2.961457986	2.871640532	2.923756649	3.044384535	2.948935762	2.695355979
AKNAD1	2.878777368	2.791810878	2.8369967	2.948153615	2.838131095	3.01340622
LOC100509814	2.974488844	2.906874329	2.936778498	3.055106087	2.95474178	2.77380094
TBR1	3.014336975	2.892778588	2.989153672	3.030095445	2.994262073	2.828369369
LOC101060019	2.758521406	2.798865153	2.726790671	2.944443626	2.758887616	2.678581898
UTS2	2.941219829	2.849627465	2.901529455	3.060063127	2.93027956	2.671686787
LINC00358	2.781453401	2.629906408	2.726945678	2.920196771	2.742454858	2.773769782
RNASE11	2.961408748	2.874334724	2.9380644	2.952753967	2.940968167	2.850322145
PDE6H	2.902754919	2.806378576	2.863430629	2.939987064	2.876720629	2.773335255
C6orf201	3.017612262	2.922391432	2.96389223	3.146774167	2.988729453	2.867285655

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
SFTA2	3.002563137	2.875704196	2.978313188	2.9936739	2.969252552	2.985330695
FAM66C	2.888640245	2.899431011	2.879963608	2.916886967	2.869212622	3.074151743
LINC01312	3.018815574	2.778220014	2.948250624	3.026023039	2.976027127	2.637108762
LOC100996549	3.069195795	2.899221849	3.020032464	3.106796727	3.045039509	2.787659844
THEM5	2.931429273	2.924937599	2.915406416	2.978770628	2.902496185	3.141236413
LOC101929592	3.17500756	3.011825233	3.122838043	3.297851584	3.146399688	3.050637624
LINC00610	3.19947542	3.107998403	3.179768753	3.16839504	3.176892529	3.146541758
CHRNA9	3.421572996	3.319447215	3.466802896	3.299076845	3.42439353	3.19974365
SOST	3.192269992	3.034225368	3.150247398	3.19574648	3.157507201	3.09170288
UGT2B17	3.356317086	2.821603985	3.336653087	3.061831731	3.311821528	2.569849477
LOC101928135	3.057045126	3.088108338	3.048350061	3.110364166	3.028793162	3.356371967
KRTAP3-3	2.891912745	2.762294543	2.848613652	2.967186939	2.861928915	2.878631647
SIGLECL1	3.045742916	3.009544321	3.032146888	3.070643731	3.042896502	2.817175148
SPATA42	3.000817929	2.962173753	2.97474003	3.075985342	2.997970595	2.86866453
FGG	4.123366802	3.238212368	4.030551912	3.839026749	4.018428179	3.440054194
LOC157273	2.883429697	2.886202235	2.875399339	2.920353688	2.881631558	2.764263648
TRPC3	3.057809673	2.93447153	3.021870692	3.047118806	3.031304421	2.86298214
LINC00113	2.96658066	2.866053221	2.910270444	3.108526577	2.932048873	2.929050695
CNBD1	2.968124416	2.838924332	2.934430524	2.928495763	2.939648097	2.806157764
BNC1	3.005709195	2.929913756	2.988283966	3.058128886	2.953166548	3.448606837
LINC01568	2.984498998	2.902454047	2.94177882	3.086283192	2.962542161	2.912338126
LOC100506331	2.996951822	2.961995716	2.978991437	3.000040381	2.985341626	2.920249786
F9	3.139531108	2.957027951	3.090074207	3.195185335	3.101661307	2.993409581
ERVV-1	3.10669036	2.921063027	3.075778295	3.047577756	3.074194514	2.990156965
LOC101927282	2.988024231	2.919145834	2.954257877	3.074917541	2.975435289	2.837614482
ADGRG7	3.154281485	2.87929166	3.091141837	3.259755159	3.114592744	2.917071774
LOC389895	3.049812885	2.946474682	3.028417645	3.053238019	3.026715523	2.924696281
LINC01085	2.836195971	2.752639702	2.80774474	2.877933696	2.803970135	2.925749335
HIST1H3F	3.031123479	2.952189283	3.027009125	2.931835634	3.025149287	2.736452672
LINC00458	3.067747935	2.971940895	3.027874651	3.11310102	3.047096358	2.884050758
IZUMO1	2.872595371	2.89564161	2.862024586	2.918323415	2.877687372	2.681715409
ZNF366	2.93610506	2.992216592	2.936902493	2.989344907	2.944073027	2.862214686
LOC100130642	2.808487388	2.676410668	2.758572332	2.871545353	2.771730895	2.749488968
LINC00536	3.009908537	2.906659993	2.985117449	3.004989816	2.986750738	2.891776973
OTC	3.151243596	3.010072869	3.083841303	3.386493778	3.140645831	2.809126091
CTD-2350J17.1	2.963111156	2.893524738	2.928486409	3.023337696	2.949018822	2.757179242
1-Dec	2.988881414	2.932353159	2.943051131	3.181233073	2.997077689	2.627931195
TH2LCRR	2.937602158	2.894391397	2.909147306	2.995559661	2.912859819	2.964999918
OTOGL	3.083958083	2.889809835	3.059866569	2.971707314	3.0291849	3.167837474
KDM5D	3.305757178	3.087104188	3.231236015	3.46719705	3.270330199	2.998650248
RTKN2	3.157418982	2.810993906	3.125718742	2.886490948	3.124305775	2.665569697
LOC403312	2.688787238	2.614359547	2.656891216	2.708656303	2.655189039	2.716895519
TRPC5	2.795286601	2.758586402	2.774520819	2.828043926	2.776962757	2.785526442
LOC101929144	2.9551959	2.873758464	2.940996689	2.927505841	2.936163991	2.910494058
TPH1	3.092508643	2.930472989	3.083160755	3.003786736	3.06774821	3.003830886
ANO5	3.480356544	4.162992836	3.505198531	4.292650775	3.563881603	4.055522036
HEATR9	2.967017031	2.9121599	2.936122788	3.049484079	2.958065883	2.786258651
SOX21-AS1	2.895887998	2.751339856	2.841007718	2.988221739	2.853470158	2.91203741
ZNRF2P1	2.99185572	2.876144945	2.968849708	2.946235897	2.95708237	3.000363556
LOC105370424	3.068442053	2.961384873	3.014180729	3.242016193	3.0393393	3.089346651
GNGT1	2.874594984	2.739832214	2.879474792	2.739186165	2.866890232	2.519953549
LINC01289	3.11712491	3.000056513	3.087399934	3.140720869	3.102180315	2.902465776
LINC01424	3.136150118	2.961659516	3.104781523	3.048066211	3.113532378	2.889051411
IMPG2	3.071044295	2.889666175	3.016576385	3.094931427	3.045511925	2.738742805
SLC9C2	2.954692382	2.911647965	2.924434255	3.022768902	2.939953207	2.878478717
LOC105377938	2.969249118	2.794534425	2.943550523	2.917206647	2.954108659	2.628483398

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
LOC101927815	3.203696212	3.021927314	3.151771525	3.284358273	3.177016802	2.919724242
LINC00307	2.889212016	2.806672031	2.866211652	2.916046504	2.870121667	2.790102967
MS4A6E	3.016072475	2.928532464	2.995869577	3.132207114	3.006340523	2.884287413
LOC100129198	3.050722102	2.925315767	3.011622105	3.096221554	3.038875032	2.768869326
OLIG1	3.11176484	2.787709038	3.089924531	2.909522714	3.069128621	2.695343923
LOC101929497	3.159503333	2.936543022	3.106854558	3.145718432	3.104003258	3.157351701
SPRR1B	3.417512537	3.084849949	3.38996786	3.374343094	3.368537166	3.098366595
LOC101927735	3.072264756	3.016641385	3.053996914	3.123867669	3.059655464	3.04742443
FTHL17	2.921373002	3.026572405	2.928371688	2.971926192	2.935330395	2.883444338
EML5	2.961432286	2.886557316	2.93126658	3.009839396	2.918313727	3.226148382
LINC01233	2.888218628	2.880284185	2.8733832	2.902041664	2.885821438	2.713691277
SMPX	3.22942848	3.127390195	3.227683842	3.169911412	3.22204447	2.943120575
AADACP1	2.926075876	2.860186508	2.862362439	3.18208856	2.8911058	3.034301897
CATSPERD	2.928863069	2.84596266	2.90941142	2.88839317	2.919389117	2.666368426
DEFB108B	2.883949982	3.03766078	2.887960211	3.066137561	2.907303398	2.889470605
LOC100129973	2.936080417	2.851192324	2.91573772	2.893952056	2.897177252	3.152927588
OR2J3	3.049652466	2.970016595	3.021191879	3.099026437	3.022542128	3.006883837
LOC100506236	3.00509156	2.913497813	2.986247203	2.971436036	2.985786199	2.854355472
MCM8-AS1	2.942489599	2.977551075	2.936128248	3.036378459	2.951056099	2.787362743
LOC283454	3.052457656	2.878410376	3.000311937	3.025138574	3.016364304	2.865539611
SPATA45	3.030083653	2.938503215	2.989294433	3.122535307	3.018553221	2.825419516
TEX33	2.977274269	2.904522065	2.945014053	3.037776395	2.964144293	2.878659155
NPBWR2	3.0137135	2.979992728	2.974729668	3.198866673	3.02131196	2.730873882
C1orf234	2.857708837	2.892731197	2.839706571	2.962628208	2.854538149	2.88111079
ADAM2	2.835096845	2.755435141	2.827191012	2.847179096	2.82198743	2.670492208
ENTHD1	2.848408493	2.685448549	2.805986634	2.820557052	2.819936992	2.561167499
LOC51145	2.917602875	2.82972485	2.879678568	2.978999793	2.897388677	2.697047687
LILRP2	3.363743318	3.252696182	3.350392437	3.273337052	3.335103774	3.284264398
LOC401220	2.776588709	2.725933136	2.75945592	2.770236465	2.757722784	2.731576901
DKFZP761C1711	3.048135449	2.924583103	3.006411927	3.095197148	3.013404623	3.039837637
LOC283038	3.053288427	2.880755901	2.998896431	3.116314126	3.012945793	2.996376411
LOC100505609	3.008385584	2.938797767	2.988496058	3.030719758	2.999485876	2.839570348
GRIA4	2.932582743	2.883630925	2.909325766	2.989815015	2.874178676	3.481686531
LOC105374989	2.914548598	2.799239712	2.855150575	3.062844001	2.892814122	2.732929513
PAQR9	3.106038678	2.981882815	3.062428739	3.162737918	3.08034086	2.919318702
LOC101926975	3.188437573	3.315822099	3.169230892	3.459631879	3.206131707	3.141540484
LINC01122	3.086185142	2.913170167	3.050928069	3.041047534	3.045366955	3.042420795
LOC340340	3.119377996	3.017603895	3.086650663	3.184130713	3.105592309	2.89853192
BAGE	3.048977213	2.938989808	3.010783562	3.08073911	3.030524759	2.803925723
PBOV1	3.041565452	2.96434453	3.014317087	3.099309383	3.030742695	2.827705738
C17orf98	2.99635581	2.995981418	2.980605349	3.089576392	2.995277416	2.912990744
CREG2	3.014410634	2.864705803	2.981660233	3.001390134	2.983828797	2.923220002
FCRL4	3.162930958	3.039791981	3.139510507	3.162516167	3.147896036	2.944111586
KCTD4	2.972401278	2.95890713	2.948089642	3.053283938	2.954237383	3.088745586
LOC100505658	3.246481321	3.171274291	3.208769093	3.337952232	3.230415946	3.119648856
METTL21C	2.819235056	2.749479092	2.776888697	2.894184099	2.776027146	2.971006357
MGC40069	3.143896974	2.83964627	3.084404447	3.041470894	3.087934323	2.873058827
MYH8	3.065598165	3.088689712	3.080541762	3.024384872	3.072642994	2.916230398
FAM47E	3.082468385	3.005100095	3.066008108	3.086262143	3.057983554	3.244725592
MCMD2C2	2.951414802	2.880898707	2.924927281	2.973424832	2.937112811	2.836474163
SOX30	3.043861846	2.907868108	3.005328654	3.080400321	3.022507163	2.828370499
SERPINB3	3.202505763	2.865768297	3.165305986	3.145121873	3.12803633	3.210010688
ASIC5	3.022725892	2.849708466	2.985171499	2.930388388	2.9865069	2.832558883
MYO3B	3.056429915	2.822603223	3.0238112	3.03198167	3.022099756	2.819641417
MAGEA11	3.059647709	2.888474498	3.021321018	3.078660638	3.041095696	2.732933358
KRT13	3.175686763	3.168235581	3.193056179	3.175881974	3.175575472	3.069598726

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
CSNK1A1P1	2.930952424	2.790271892	2.890686351	2.936862745	2.895652615	2.929960974
CTCF	3.017545085	3.06558052	3.013711282	3.038788796	3.003107118	3.074648897
C11orf40	2.925162825	2.792835792	2.883295273	2.964578265	2.882767127	2.969322379
LOC101927746	3.145194195	3.005875078	3.124393882	3.135418912	3.141344641	3.029611155
LOC101927058	3.084984715	2.984948278	3.064041983	3.073497168	3.06764342	2.967106728
PGM5P2	2.887056302	2.821850897	2.862762547	2.960185886	2.841435685	3.267138901
ADAM18	3.099943198	2.945909349	3.052445608	3.151643647	3.061995445	3.051370261
RXFP2	2.971907433	2.835377499	2.927546493	3.029643156	2.938093525	2.913519269
LOC100422212	2.937054405	2.825021384	2.901775563	2.963921553	2.915122276	2.773559413
SLC17A6	3.043247034	2.810265295	2.997945191	3.016295454	2.993418552	3.033876048
ASB17	2.97187508	2.850638044	2.924791924	3.054942282	2.931536732	3.055829578
HORMAD1	3.377297217	3.042991353	3.457327398	2.801638217	3.383095494	2.558406794
PROX1-AS1	2.929363778	2.873100404	2.919676337	2.862983389	2.902743811	2.997658678
GCSAML	2.816702921	2.913544685	2.823278738	2.857782747	2.824912075	2.808005377
LOC100128175	3.083109272	2.883001139	3.02488242	3.178983543	3.053095778	2.843522277
LOC729866	2.969157394	2.786058782	2.938225966	2.925351314	2.942716894	2.76829309
PHF2P1	2.920422554	2.797688878	2.889404369	2.92240296	2.894757011	2.756887227
LINC00561	3.02705437	2.972222156	2.998398663	3.095536884	3.013830243	2.889606482
LINC01197	2.984022044	2.977568026	2.958762893	3.077410173	2.967718763	3.004810202
DGKB	2.87839658	2.826181885	2.8501492	2.913266542	2.866109381	2.776643664
C5orf47	3.131890036	3.053771397	3.097469331	3.156608175	3.118920554	2.909551596
LOC255177	3.083278067	2.970803517	3.042676313	3.169567674	3.063837605	2.951537201
TUSC7	3.115749398	3.006619151	3.071304585	3.210713562	3.094769046	2.957231928
LINC00612	3.066995523	2.971083878	3.020999622	3.190062113	3.01429732	3.385003593
LOC100505782	2.833979736	2.759899356	2.815011621	2.833314918	2.816947648	2.731179496
MS4A12	3.104867289	2.947870121	3.063064366	3.122303059	3.061247673	3.093647605
LPA	2.823411929	2.73790834	2.795127165	2.850403384	2.810434057	2.618103847
EDNRB-AS1	3.363337594	3.324600258	3.318101335	3.748811372	3.346689209	3.521143314
LOC101927123	3.038235409	2.90552788	3.004249437	3.032724879	3.01619781	2.895288775
NPSA	2.911658515	2.868062769	2.876672021	3.020044508	2.892746193	2.845339372
OLIG3	3.067808536	3.049425614	3.039744977	3.15786862	3.060014167	2.963656521
LOC101929774	2.956975386	2.80958547	2.919591267	3.001453836	2.926438696	2.840126945
LINC00525	3.202440971	2.927116701	3.150016577	3.185502747	3.16130432	2.924065241
SNTN	2.919331902	2.801582574	2.890569368	3.014445538	2.912325773	2.720976619
LOC101930067	3.17213494	2.843705362	3.193263006	2.768122018	3.133617298	2.803060696
LOC101928767	3.098262442	2.895447609	3.055629115	3.105141032	3.075608868	2.746445656
LOC105374768	3.117304365	2.946048222	3.063643245	3.226590058	3.086155476	2.984062758
SLC26A7	3.130536948	3.401048191	3.126034374	3.498743415	3.166311869	3.155184633
LOC101929963	3.24243407	3.065367594	3.204672139	3.232286155	3.214531679	3.021625492
IFNE	3.000655811	2.881698404	2.97729219	2.961572069	2.966314427	3.071357692
FAM81B	3.326110318	2.872800562	3.277797034	3.142448806	3.257142629	3.047275005
LOC100506851	3.004402939	2.956102722	2.981922576	3.073291232	3.006773646	2.898409847
MAGEB4	3.190193755	3.038447807	3.14985551	3.227985902	3.17517073	2.943537942
LOC100132661	3.22837545	3.074954013	3.190457153	3.237954877	3.19909857	3.10690896
LOC102723448	2.891745668	2.836818684	2.885090483	2.869956072	2.878295661	2.884862012
CAPZA3	2.943224182	2.914823408	2.932698271	2.918516826	2.864995827	3.754132904
LOC101928697	2.824861163	2.86181187	2.814992383	2.885104794	2.821533344	2.871850506
DEFB127	2.945924381	2.862696138	2.911352278	3.028876993	2.933442962	2.754649406
LOC100507140	3.245731211	3.006395394	3.205654273	3.236087354	3.222187331	2.892637273
FAM26D	3.271048312	3.124058437	3.228565028	3.386839555	3.24956205	3.060014507
LINC00858	3.112444344	3.030700435	3.06826317	3.213887431	3.090273497	3.009162003
HSF5	3.131666076	3.046600482	3.106519614	3.167951865	3.129313086	2.833224756
GNRHR	3.088099812	2.952015394	3.037569666	3.146583133	3.060287569	2.928164157
LOC105378732	3.20124139	2.984574723	3.181831985	3.082816099	3.178790345	2.838674628
TRPC5OS	2.920029497	2.753244934	2.862655268	3.002799289	2.885084324	2.781239562
LINC01234	2.947515085	2.845520566	2.911767743	3.01430505	2.919422687	2.857784897

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
LOC644135	2.946143994	2.843394166	2.904047867	2.989607696	2.913317371	2.921352136
LDHAL6B	3.053673819	2.85555549	2.991447399	3.132424503	3.021408531	2.701262712
LMOD2	3.306880289	3.30550294	3.298728479	3.342290999	3.319162087	3.05865394
LINC00477	2.998959933	2.95200237	2.969974454	3.09556276	2.991552403	2.859201855
GPR174	3.010054122	2.82304193	2.965538718	2.988266249	2.971767947	2.82216375
LOC101929486	3.07196554	2.886644872	3.013377598	3.211056924	3.020834439	3.158331952
LIN28B	3.111046516	2.941324658	3.114067591	2.970134434	3.088859895	2.873889166
LOC100506083	2.958218915	3.331536507	3.009267227	3.09755979	3.00278041	3.266987018
C20orf197	2.893909638	2.781443611	2.861175547	2.876321715	2.857014263	2.866029588
FLG-AS1	3.059521487	3.02066321	3.012848817	3.195769121	3.022459183	3.242242095
SMAD1-AS2	2.974001633	2.932484008	2.940849745	3.094642801	2.957996113	2.996086714
LINC00643	2.894129665	2.842967517	2.86566974	2.944766405	2.88638601	2.728351819
LOC285692	3.061395558	3.024387834	3.049241915	3.058951297	3.05644876	2.91380035
LANCL3	2.930705658	2.83307258	2.902370993	2.897549911	2.889755772	3.074629568
PRO2964	2.938661853	2.872795631	2.91116792	2.978528653	2.926484203	2.767404951
LOC150596	3.078517182	2.940379402	3.038190932	3.134376253	3.048422611	3.049899157
SLC18A1	3.279261227	3.113779734	3.268635406	3.252507106	3.266145947	3.006258848
LINC01105	3.38792368	3.006337519	3.373080815	3.083388896	3.352813601	2.901358921
RGS7BP	2.931208765	3.943438772	2.998040363	3.879690165	3.040632476	4.069651029
LINC01405	3.160823368	3.039237175	3.123186363	3.265130408	3.154713093	2.78801243
PDZRN4	3.485421869	4.052607004	3.48556222	4.321333508	3.592968966	3.440486109
DEPDC4	2.927989498	2.860388768	2.903121286	2.956308899	2.919496713	2.756769173
LOC101928449	3.145157594	3.01240724	3.094890116	3.248647853	3.115891571	3.05632973
LOC284263	2.963089645	2.860825684	2.944559214	2.913157626	2.943437422	2.818601263
RNF217-AS1	2.720475269	2.635633255	2.691427845	2.715279854	2.68705093	2.732565566
INHBE	2.955131477	2.906678066	2.910866695	3.128196022	2.944451684	2.847345361
SLC26A8	3.301000205	3.183142687	3.266641439	3.357889927	3.288081646	3.018501269
LOC101927490	3.053300033	2.981933519	3.011640701	3.186052832	3.045099496	2.864557149
LINC01098	2.89294792	2.847480878	2.866355415	2.934329786	2.864676174	2.995651381
C12orf50	2.901819285	2.840755311	2.878337293	2.924170842	2.879247993	2.922999594
C20orf85	3.372106604	3.177950686	3.336654566	3.40713467	3.362845094	3.0275344
DLGAP1	3.272362149	3.101339048	3.256682915	3.186747543	3.228250052	3.345726448
CXCL5	3.025437135	2.932049651	3.006695771	3.096716162	2.972974865	3.504759839
KRT12	2.968185995	2.841648179	2.926051281	3.020251597	2.930100306	2.986259072
LOC101928405	2.867831271	2.732874727	2.819820709	2.925185905	2.822691838	2.944433804
LOC100506885	3.05382127	2.962252478	3.019122853	3.086466957	3.044970875	2.719065162
HRH4	3.01055546	2.922987764	2.963346992	3.143470937	2.995884565	2.804876441
OR2M4	2.983062884	2.881455157	2.945218888	3.027573894	2.960827828	2.863983826
FGB	3.956972687	3.199402858	3.906462315	3.600441211	3.864263207	3.373794288
ZNF257	3.064577274	2.896128541	3.065491891	2.930398664	3.036123054	3.027956049
FEZF2	3.095722799	3.101906518	3.095926952	3.09754083	3.087042828	3.097154807
SSX1	3.165008955	2.974031607	3.123162706	3.160877644	3.149420784	2.750593503
NR2E1	3.231407263	3.121258581	3.203133066	3.316488623	3.208994587	3.1540145
RAG1	3.040578196	2.982800839	3.009496577	3.08549348	3.018175083	2.94191716
SULT2A1	3.105134169	2.99760566	3.065092057	3.158174908	3.087412424	2.909365545
ZBBX	2.87227972	2.71085037	2.838281666	2.920695049	2.852600123	2.60528807
SAGE1	2.999359773	2.927631956	2.972308257	3.070617893	2.989203264	2.822614348
C4orf26	3.003839613	2.894542428	2.984219255	3.051846554	2.98420135	2.841550956
DDX4	3.164457852	3.080706415	3.156089462	3.150671838	3.169495142	2.824120407
PLD5	2.896657825	2.933649689	2.876604633	3.024697925	2.860697304	3.350862659
DIAPH2-AS1	3.076699024	3.045961709	3.053370234	3.169451163	3.079531329	2.83029487
LINC00459	2.994618137	2.921780811	2.966324321	3.067027236	2.985040464	2.83843678
LOC340090	3.062158624	2.989005652	3.04087638	3.123529168	3.058654627	2.816252368
LINC01467	2.988972878	2.845311347	2.928983254	3.12810592	2.950272983	2.98663839
MAMDC2-AS1	3.196499187	3.022119386	3.143855553	3.273371031	3.168701185	3.030903274
LOC101929528	3.181372376	3.069002278	3.145728531	3.189244359	3.158080255	2.967107233

Table SI. Continued.

Gene	GSE29431_ case	GSE29431_ control	GSE42568_ case	GSE42568_ control	GSE61304_ case	GSE61304_ control
NR1H4	3.053769514	2.91704436	2.998213792	3.159559228	3.028269493	2.84058994
AFM	2.950704974	2.898325807	2.906412151	3.109243363	2.925538944	2.933954975
LINC00566	2.890633999	2.829346857	2.87166422	2.911537344	2.877596364	2.798197406
CASC6	2.941978986	2.858813336	2.894153033	3.084841725	2.923135649	2.79930665
LINC01153	2.856315921	2.865571002	2.843650672	2.936399388	2.857147028	2.718281846
LOC101927843	2.955494288	2.957410043	2.94430122	2.960756733	2.946886873	2.875133524
F11-AS1	2.955418951	2.923670731	2.947498941	2.937757519	2.939954969	2.991161991
MTMR7	2.993558625	2.905412715	2.953300639	3.084359016	2.977615518	2.806184144
CYP4F11	3.002743459	2.911029571	2.980032455	2.998697772	2.986984097	2.840255218
LOC285422	3.296346504	3.136208715	3.270372508	3.239149115	3.267980391	3.159345787

Table SII. Associations between expression levels of ACACB, ACADM and ACDC and clinicopathological features of patients with breast cancer from TCGA.

Features	ACACB			ACADM			ACDC		
	Low	High	χ^2	P-value	Low	High	χ^2	P-value	P-value
Age, years ^a	59.32±13.03	58.96±13.35		6.59x10 ⁻¹	60.14±13.15	58.14±13.15		1.33x10 ⁻²	3.00x10 ⁻¹
Sex, n									
Female	534	540	2.107	1.47x10 ⁻¹	535	539	0.758	3.84x10 ⁻¹	1.47x10 ⁻¹
Male	9	3			8	4			
Ethnicity, n									
American Indian	1	0	38.556	8.603x10 ⁻⁸	1	0	22.867	1.346x10 ⁻⁴	2.872x10 ⁻⁵
Asian	45	16			32	29			
Black	116	64			118	62			
White	335	416			348	403			
NA	46	47			44	49			
Site, n									
Stage I	80	100	12.753	2.58x10 ⁻²	81	99	8.539	1.29x10 ⁻¹	1.066x10 ⁻⁴
Stage II	333	284			317	300			
Stage III	110	136			124	122			
Stage IV	12	8			13	7			
Stage X	3	9			6	6			
NA	5	6			2	9			
Status, n									
Alive	464	471	0.277	5.99x10 ⁻¹	464	471	0.277	5.99x10 ⁻¹	5.99x10 ⁻¹
Dead	79	72			79	72			

^amean ± SD. ACACB, acetyl-CoA carboxylase β; ACADM, acyl-CoA dehydrogenase medium chain; ACDC, adiponectin, C1Q and collagen domain containing.

Table SIII. Associations between expression levels of ACS2, PCK1 and PLIN1 and clinicopathologic features of breast cancer cases from The Cancer Genome Atlas database.

Features	ACS2			χ^2	P-value	PCK1			χ^2	P-value	PLIN1			χ^2	P-value
	Low	High				Low	High				Low	High			
Age, years ^a	59.98±13.21	59.30±13.17		6.93x10 ⁻¹	58.93±13.64	59.34±12.72		6.10x10 ⁻¹	59.10±13.72	59.18±12.64		9.26x10 ⁻¹			
Sex, n															
Female	536	538	8.543e-28	1	533	541	2.125	1.45x10 ⁻¹	534	540	2.107	1.47x10 ⁻¹			
Male	6	6			9	3			9	3					
Ethnicity, n															
American Indian	1	0	14.607	5.591x10 ⁻³	0	1	25.797	3.478x10 ⁻⁵	0	1	19.485	4.309x10 ⁻⁴			
Asian	29	32			42	19			41	20					
Black	112	68			110	70			105	75					
White	353	398			340	411			345	406					
NA	47	46			50	43			52	41					
Stage, n															
Stage I	102	78	6.505	2.60x10 ⁻¹	67	113	21.337	7.000x10 ⁻⁴	61	119	30.354	1.256x10 ⁻⁵			
Stage II	306	311			337	280			342	275					
Stage III	114	132			112	134			114	132					
Stage IV	8	12			11	9			12	8					
Stage X	5	7			8	4			6	6					
NA	7	4			7	4			7	3					
Status, n															
Alive	476	459	2.416	1.20x10 ⁻¹	462	473	0.527	4.68x10 ⁻¹	464	471	0.277	5.99x10 ⁻¹			
Dead	66	85			80	71			79	72					

^aMean ± SD. ACS2, acyl-CoA synthetase short chain family member 2; PCK1, phosphoenolpyruvate carboxykinase 1; PLIN1, perilipin 1.