

Table S4. Genes of module lavenderblush with the absolute values of GS for E18.5 > 0.2 and MM > 0.8.

Gene Name	Gene ID	Module	Gene Significance	Module Membership	Gene Type
Gm9951	ENSMUSG00000054618	lavenderblush	0.45528207	0.835110619	lncRNA
9130019P16Rik	ENSMUSG00000073067	lavenderblush	0.636782603	0.875291994	lncRNA
Gm12798	ENSMUSG00000084758	lavenderblush	0.422694227	0.84466158	lncRNA
Gm12061	ENSMUSG00000084769	lavenderblush	-0.63410472	-0.851591864	lncRNA
Gm11342	ENSMUSG00000084788	lavenderblush	0.802532891	0.963938672	lncRNA
Gm13415	ENSMUSG00000085057	lavenderblush	0.575997089	0.826579536	lncRNA
Gm11615	ENSMUSG00000085083	lavenderblush	0.866211741	0.884503932	lncRNA
4833418N02Rik	ENSMUSG00000085287	lavenderblush	0.561947116	0.927366159	lncRNA
Gm14437	ENSMUSG00000085358	lavenderblush	0.723130033	0.97426384	lncRNA
Arhgap27os2	ENSMUSG00000085360	lavenderblush	0.677742006	0.8305021	lncRNA
Accs2os	ENSMUSG00000086529	lavenderblush	0.775175355	0.9333803	lncRNA
Rapegf3os1	ENSMUSG00000086601	lavenderblush	0.578397469	0.881185825	lncRNA
Gm15475	ENSMUSG00000087001	lavenderblush	0.454891426	0.838134922	lncRNA
E230016M11Rik	ENSMUSG00000087231	lavenderblush	0.588910457	0.813845137	lncRNA
Gm15270	ENSMUSG00000087400	lavenderblush	0.730678396	0.878215545	lncRNA
Gm14455	ENSMUSG00000087633	lavenderblush	0.719580529	0.903663835	lncRNA
4732440D04Rik	ENSMUSG00000090031	lavenderblush	0.548822185	0.8529348	lncRNA
Gm15647	ENSMUSG00000090212	lavenderblush	0.42063686	0.828406624	lncRNA
Gm20400	ENSMUSG00000092500	lavenderblush	0.789542931	0.972810468	lncRNA
A330023F24Rik	ENSMUSG00000096929	lavenderblush	0.642439779	0.853566659	lncRNA
E230013L22Rik	ENSMUSG00000096957	lavenderblush	0.673747262	0.813214403	lncRNA
Gm26692	ENSMUSG00000097035	lavenderblush	-0.607498711	-0.818891859	lncRNA
Gm26759	ENSMUSG00000097060	lavenderblush	0.623368801	0.857800152	lncRNA
Platr7	ENSMUSG00000097076	lavenderblush	0.963580638	0.809149441	lncRNA
Gm26631	ENSMUSG00000097445	lavenderblush	0.777464406	0.967367547	lncRNA
Gm26892	ENSMUSG00000097454	lavenderblush	0.855661804	0.9255318	lincRNA
C430014B12Rik	ENSMUSG00000097564	lavenderblush	0.915673287	0.807064548	lncRNA
Gm27252	ENSMUSG00000098708	lavenderblush	0.49811177	0.890552718	lncRNA

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Dalir	ENSMUSG00000099784	lavenderblush	0.758522435	0.96621794	lncRNA
Gm29337	ENSMUSG00000099848	lavenderblush	0.866212748	0.936522174	lncRNA
Gm29177	ENSMUSG00000100612	lavenderblush	0.883131525	0.918868393	lincRNA
Gm29347	ENSMUSG00000100979	lavenderblush	0.832366391	0.953209709	lncRNA
2610016A17Rik	ENSMUSG00000101089	lavenderblush	0.921707413	0.855582759	lncRNA
Gm29163	ENSMUSG00000101392	lavenderblush	0.502586355	0.891743511	snRNA
Gm28056	ENSMUSG00000101696	lavenderblush	0.654653671	0.973126042	antisense
4933402C06Rik	ENSMUSG00000102004	lavenderblush	0.735199627	0.976546749	lncRNA
Gm28620	ENSMUSG00000102020	lavenderblush	0.654653671	0.973126042	lncRNA
C730036E19Rik	ENSMUSG00000102095	lavenderblush	0.812116212	0.952007099	lncRNA
Gm37973	ENSMUSG00000102370	lavenderblush	0.422404805	0.819469046	TEC
Gm38199	ENSMUSG00000102464	lavenderblush	0.8054559	0.947384474	TEC
Gm38033	ENSMUSG00000102845	lavenderblush	0.423336927	0.804675117	lncRNA
Gm37279	ENSMUSG00000102883	lavenderblush	0.84788395	0.940732324	TEC
Gm37804	ENSMUSG00000103301	lavenderblush	-0.443064575	-0.857851984	TEC
Gm37355	ENSMUSG00000103595	lavenderblush	0.883131525	0.918868393	TEC
Gm38329	ENSMUSG00000103632	lavenderblush	0.646724255	0.803770375	TEC
Gm38095	ENSMUSG00000103791	lavenderblush	0.430426906	0.872159047	TEC
4930590H14Rik	ENSMUSG00000103794	lavenderblush	0.654653671	0.973126042	TEC
Gm37750	ENSMUSG00000104268	lavenderblush	0.654653671	0.973126042	TEC
Gm43185	ENSMUSG00000104621	lavenderblush	0.495147746	0.82742619	TEC
Gm43021	ENSMUSG00000104691	lavenderblush	0.789833806	0.930510859	lncRNA
Gm43273	ENSMUSG00000104966	lavenderblush	0.433407284	0.836579304	TEC
Gm43127	ENSMUSG00000105140	lavenderblush	0.598236044	0.892240339	TEC
Gm43446	ENSMUSG00000105197	lavenderblush	0.876687231	0.929322361	lncRNA
Gm42436	ENSMUSG00000105517	lavenderblush	0.783656373	0.968163073	TEC
Gm43208	ENSMUSG00000105577	lavenderblush	0.888808902	0.921681202	lncRNA
4633401B06Rik	ENSMUSG00000105597	lavenderblush	0.408006599	0.81564952	TEC
Gm43134	ENSMUSG00000105642	lavenderblush	0.696449491	0.973317114	lncRNA
Gm43831	ENSMUSG00000105653	lavenderblush	0.692449198	0.916634005	TEC
Gm42793	ENSMUSG00000105954	lavenderblush	0.888252254	0.919372962	TEC
Gm43094	ENSMUSG00000106206	lavenderblush	0.404599968	0.879681343	TEC

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Gm43246	ENSMUSG00000106541	lavenderblush	0.317139182	0.820753608	TEC
Gm42613	ENSMUSG00000106575	lavenderblush	0.62621672	0.807963592	TEC
4930421C12Rik	ENSMUSG00000106851	lavenderblush	0.917515342	0.857667751	TEC
Gm43621	ENSMUSG00000106933	lavenderblush	0.606509348	0.801055179	TEC
Gm44220	ENSMUSG00000107655	lavenderblush	0.916065247	0.891310775	TEC
Gm44130	ENSMUSG00000108211	lavenderblush	-0.473552761	-0.84261415	TEC
Gm43883	ENSMUSG00000108217	lavenderblush	0.61867147	0.848731418	TEC
RP23-298C3.10	ENSMUSG00000108734	lavenderblush	0.654653671	0.973126042	TEC
RP24-443B5.7	ENSMUSG00000108760	lavenderblush	0.550176647	0.832925731	lncRNA
RP24-350A15.6	ENSMUSG00000109254	lavenderblush	0.763927705	0.968176419	lncRNA
RP23-383B18.1	ENSMUSG00000109357	lavenderblush	0.926570093	0.826237423	TEC
RP23-414I24.10	ENSMUSG00000109441	lavenderblush	0.783363971	0.936638595	lncRNA
Gm15396	ENSMUSG00000109491	lavenderblush	0.752926454	0.974615143	lncRNA
Oxgr1	NM_001001490	lavenderblush	0.802225893	0.966452033	protein_coding
Limch1	NM_001001980	lavenderblush	0.69892658	0.877479321	protein_coding
Penk	NM_001002927	lavenderblush	0.666798135	0.828590319	protein_coding
Ifit3b	NM_001005858	lavenderblush	0.770776017	0.976879306	protein_coding
Akr1c19	NM_001013785	lavenderblush	0.633070861	0.883298952	protein_coding
Acmsd	NM_001033041	lavenderblush	0.780164321	0.968042913	protein_coding
Slc5a10	NM_001033227	lavenderblush	0.763458846	0.969671531	protein_coding
Gm853	NM_001034872	lavenderblush	0.706623139	0.979333591	protein_coding
Pard3b	NM_001081050	lavenderblush	0.558064786	0.949158362	protein_coding
Lama5	NM_001081171	lavenderblush	0.569369567	0.933618073	protein_coding
Dgkh	NM_001081336	lavenderblush	0.655351671	0.843304388	protein_coding
Susd5	NM_001101510	lavenderblush	0.517284018	0.859298328	protein_coding
Lima1	NM_001113545	lavenderblush	0.584143938	0.953556881	protein_coding
Mfsd4a	NM_001114662	lavenderblush	0.751282759	0.95140944	protein_coding
Hsbp1l1	NM_001136181	lavenderblush	0.752606723	0.967357756	protein_coding
Il1rap	NM_001159317	lavenderblush	0.590178969	0.930353697	protein_coding
Lnx1	NM_001159577	lavenderblush	0.521883271	0.864787816	protein_coding
Slc44a1	NM_001159633	lavenderblush	0.494836348	0.878275689	protein_coding
Trmt2b	NM_001167994	lavenderblush	0.450023006	0.877255531	protein_coding

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Mndal	NM_001170853	lavenderblush	0.820838412	0.966958742	protein_coding
Galns	NM_001193645	lavenderblush	0.667131792	0.857130741	protein_coding
Rapgef4	NM_001204165	lavenderblush	0.478639518	0.903437238	protein_coding
Col12a1	NM_001290308	lavenderblush	0.732634697	0.833505372	protein_coding
Sat1	NM_001291865	lavenderblush	0.419789422	0.813160426	protein_coding
Trps1	NM_001310481	lavenderblush	0.498793019	0.940020911	protein_coding
Khk	NM_001310524	lavenderblush	0.776526334	0.936562935	protein_coding
P2rx4	NM_001310718	lavenderblush	0.532246779	0.895633285	protein_coding
Gdf7	NM_001312876	lavenderblush	0.568463775	0.830617343	protein_coding
Thbs1	NM_001313914	lavenderblush	0.597110046	0.855634445	protein_coding
Kif12	NM_001317352	lavenderblush	0.525642947	0.886676258	protein_coding
Mmp23	NM_001320235	lavenderblush	0.611848034	0.802329688	protein_coding
Klk1	NM_001320331	lavenderblush	0.827304399	0.958697812	protein_coding
Aqp7	NM_007473	lavenderblush	0.702404752	0.976507242	protein_coding
Fxyd2	NM_007503	lavenderblush	0.819563381	0.951599659	protein_coding
Cyp4b1	NM_007823	lavenderblush	0.634361124	0.935844152	protein_coding
Dpep1	NM_007876	lavenderblush	0.772849293	0.966885936	protein_coding
Fgfr4	NM_008011	lavenderblush	0.502316111	0.929692033	protein_coding
G6pc	NM_008061	lavenderblush	0.759835866	0.967897975	protein_coding
Gpx3	NM_008161	lavenderblush	0.693735998	0.973137721	protein_coding
Gsta1	NM_008181	lavenderblush	0.762609559	0.969946448	protein_coding
Guca2b	NM_008191	lavenderblush	0.728343977	0.964524634	protein_coding
Foxj1	NM_008240	lavenderblush	0.648844684	0.823372959	protein_coding
Plpp1	NM_008247	lavenderblush	0.554403408	0.885254644	protein_coding
Lama2	NM_008481	lavenderblush	0.599576579	0.954703102	protein_coding
Ocln	NM_008756	lavenderblush	0.527201131	0.906677515	protein_coding
Pcsk4	NM_008793	lavenderblush	0.474851526	0.856451756	protein_coding
Ptgs1	NM_008969	lavenderblush	0.610241598	0.897645305	protein_coding
Rdh16	NM_009040	lavenderblush	0.732223927	0.975214828	protein_coding
Slc22a1	NM_009202	lavenderblush	0.766000329	0.972348764	protein_coding
Slc3a1	NM_009205	lavenderblush	0.784978688	0.968142527	protein_coding
Tnfsf10	NM_009425	lavenderblush	0.818836589	0.961735597	protein_coding

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Crisp1	NM_009638	lavenderblush	0.777467883	0.969150872	protein_coding
Aqp2	NM_009699	lavenderblush	0.835350204	0.950860649	protein_coding
Bnip3	NM_009760	lavenderblush	0.696686954	0.957593567	protein_coding
Ch25h	NM_009890	lavenderblush	0.556512049	0.830069157	protein_coding
Cyp24a1	NM_009996	lavenderblush	0.715326652	0.973451548	protein_coding
Cyp2j5	NM_010007	lavenderblush	0.799348602	0.964002849	protein_coding
Cyp27b1	NM_010009	lavenderblush	0.748258237	0.965529542	protein_coding
Ctgf	NM_010217	lavenderblush	0.623130748	0.905813059	protein_coding
Hbegf	NM_010415	lavenderblush	0.503615953	0.913684246	protein_coding
Slc6a4	NM_010484	lavenderblush	0.520854357	0.921364345	protein_coding
Ifit3	NM_010501	lavenderblush	0.730570538	0.964988316	protein_coding
Irx2	NM_010574	lavenderblush	0.57190048	0.948033819	protein_coding
Kap	NM_010594	lavenderblush	0.873666571	0.925186014	protein_coding
Nid1	NM_010917	lavenderblush	0.540492368	0.895052194	protein_coding
Pax8	NM_011040	lavenderblush	0.581634965	0.91063746	protein_coding
Ptpn18	NM_011206	lavenderblush	0.780047239	0.819989343	protein_coding
Rab20	NM_011227	lavenderblush	0.655473977	0.856329826	protein_coding
Sema3e	NM_011348	lavenderblush	0.518796408	0.934378878	protein_coding
Serpina3k	NM_011458	lavenderblush	0.659684968	0.975318491	protein_coding
Spr2f	NM_011472	lavenderblush	0.819595989	0.816553012	protein_coding
Tgtp1	NM_011579	lavenderblush	0.868791453	0.905697592	protein_coding
Creb3	NM_013497	lavenderblush	0.340583273	0.839153973	protein_coding
Pvalb	NM_013645	lavenderblush	0.843608023	0.945978584	protein_coding
Ugt1a2	NM_013701	lavenderblush	0.808751717	0.961802719	protein_coding
Rnf11	NM_013876	lavenderblush	0.472352854	0.896388075	protein_coding
Irx5	NM_018826	lavenderblush	0.557407717	0.888254297	protein_coding
Fbp1	NM_019395	lavenderblush	0.742929881	0.973680477	protein_coding
Gas6	NM_019521	lavenderblush	0.618473141	0.928176919	protein_coding
Slc2a5	NM_019741	lavenderblush	0.69350215	0.974021051	protein_coding
Miox	NM_019977	lavenderblush	0.775874349	0.966025258	protein_coding
Cyp2e1	NM_021282	lavenderblush	0.770347446	0.969651383	protein_coding
Gucy1a3	NM_021896	lavenderblush	0.616820088	0.884016918	protein_coding

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Slc13a2	NM_022411	lavenderblush	0.797612673	0.967673252	protein_coding
Scel	NM_022886	lavenderblush	0.523321819	0.924842633	protein_coding
Nat8f1	NM_023160	lavenderblush	0.820079138	0.958828116	protein_coding
Rtp4	NM_023386	lavenderblush	0.849729831	0.924545232	protein_coding
Cars2	NM_024248	lavenderblush	0.394575855	0.888804139	protein_coding
Gatm	NM_025961	lavenderblush	0.695969171	0.979570895	protein_coding
Pbld2	NM_026085	lavenderblush	0.763691377	0.932714937	protein_coding
Fam174a	NM_026321	lavenderblush	0.614902373	0.811720033	protein_coding
Atp5s	NM_026536	lavenderblush	0.41962195	0.807099195	protein_coding
Nudt22	NM_026675	lavenderblush	0.715008354	0.803056742	protein_coding
Sult1c2	NM_026935	lavenderblush	0.739819375	0.975511193	protein_coding
Cfap206	NM_027041	lavenderblush	0.295905421	0.813947516	protein_coding
Glod5	NM_027227	lavenderblush	0.77569543	0.976367489	protein_coding
9130008F23Rik	NM_027834	lavenderblush	0.630450055	0.920876344	protein_coding
Mettl7b	NM_027853	lavenderblush	0.739875159	0.975718107	protein_coding
Ndufab1	NM_028177	lavenderblush	0.42025884	0.872472484	protein_coding
Nebi	NM_028757	lavenderblush	0.547424848	0.936200566	protein_coding
Dcst1	NM_029974	lavenderblush	0.633527676	0.906083779	protein_coding
Spata2l	NM_030176	lavenderblush	0.426944184	0.880058477	protein_coding
Slc19a3	NM_030556	lavenderblush	0.873243418	0.925738963	protein_coding
Car15	NM_030558	lavenderblush	0.776450199	0.962828101	protein_coding
Hist1h1a	NM_030609	lavenderblush	-0.643449253	-0.829866398	protein_coding
Trim34a	NM_030684	lavenderblush	0.868919941	0.886273704	protein_coding
Id4	NM_031166	lavenderblush	0.56946592	0.904880421	protein_coding
Nat8f2	NM_053096	lavenderblush	0.790976675	0.969939383	protein_coding
Acsml	NM_054094	lavenderblush	0.747991618	0.973193361	protein_coding
Slc7a12	NM_080852	lavenderblush	0.906243841	0.908349921	protein_coding
Ifi44	NM_133871	lavenderblush	0.813050054	0.958915564	protein_coding
Ii13ra1	NM_133990	lavenderblush	0.655840569	0.915984606	protein_coding
Mcoln3	NM_134160	lavenderblush	0.795131196	0.920674722	protein_coding
Slc22a27	NM_134256	lavenderblush	0.822333494	0.957929636	protein_coding
Cytip	NM_139200	lavenderblush	0.774309355	0.971075	protein_coding

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Slc22a19	NM_144785	lavenderblush	0.758268183	0.972945693	protein_coding
Ugt3a2	NM_144845	lavenderblush	0.691702192	0.975835976	protein_coding
Plekhh2	NM_145516	lavenderblush	0.521914974	0.842899444	protein_coding
Tor4a	NM_146115	lavenderblush	0.690813307	0.851284999	protein_coding
Slc5a11	NM_146198	lavenderblush	0.73697704	0.976568439	protein_coding
Slc22a26	NM_146232	lavenderblush	0.748249865	0.972907595	protein_coding
Rdh19	NM_147222	lavenderblush	0.801158456	0.965024881	protein_coding
C1ql3	NM_153155	lavenderblush	0.596603937	0.926760812	protein_coding
Plekhg3	NM_153804	lavenderblush	0.519128412	0.899556732	protein_coding
Cpne7	NM_170684	lavenderblush	0.878100156	0.901275073	protein_coding
Aim1	NM_172393	lavenderblush	0.617248967	0.938991469	protein_coding
Pdk1	NM_172665	lavenderblush	0.716443062	0.913210036	protein_coding
Slc22a29	NM_172776	lavenderblush	0.77116616	0.973149255	protein_coding
Galnt18	NM_173739	lavenderblush	0.619941351	0.92893161	protein_coding
Lgalsl	NM_173752	lavenderblush	0.543087856	0.906927617	protein_coding
Zfp641	NM_173769	lavenderblush	0.526008654	0.933522018	protein_coding
Lrrc19	NM_175305	lavenderblush	0.882638803	0.925602945	protein_coding
Eogt	NM_175313	lavenderblush	0.537686651	0.915592354	protein_coding
Gpd1l	NM_175380	lavenderblush	0.563061506	0.917950228	protein_coding
Clec1a	NM_175526	lavenderblush	0.680654098	0.914347941	protein_coding
Slc22a30	NM_177002	lavenderblush	0.824386426	0.954916724	protein_coding
Tram2	NM_177409	lavenderblush	0.305851129	0.829861983	protein_coding
Sall3	NM_178280	lavenderblush	0.577127995	0.929996386	protein_coding
Ano9	NM_178381	lavenderblush	0.561900542	0.953907814	protein_coding
Plppr1	NM_178756	lavenderblush	0.546232895	0.885317314	protein_coding
Acsm5	NM_178758	lavenderblush	0.751837805	0.97499419	protein_coding
Slc2a12	NM_178934	lavenderblush	0.448434936	0.883275207	protein_coding
Slc18b1	NM_183116	lavenderblush	0.593341383	0.922497117	protein_coding
Tspan15	NM_197996	lavenderblush	0.649229946	0.906210959	protein_coding
Eddm3b	NM_203508	lavenderblush	0.83465376	0.936836494	protein_coding
H2-Ab1	NM_207105	lavenderblush	0.678271906	0.800483832	protein_coding
Mir193a	NR_029579	lavenderblush	0.654653671	0.973126042	miRNA

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Mir5124a	NR_039585	lavenderblush	0.654653671	0.973126042	miRNA
Gm10787	NR_045882	lavenderblush	0.682734124	0.975009903	lncRNA

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