

Supplemental Table 1:

Downregulated mammary gland genes in isolated mice at 15 weeks as identified using RMA (n = 296)

Probe set	Accession	Gene symbol	Gene name	SAM score	FC	pval
1422180_a_at	NM_010781	Mcpt6	mast cell protease 6	-8.651	0.71	0.00002
1448730_at	NM_007753	Cpa3	carboxypeptidase A3, mast cell	-7.024	0.61	0.00002
1425967_a_at	BC026198	Mcpt4	mast cell protease 4	-6.881	0.60	0.00002
1456389_at	BB244754	Zeb2	zinc finger E-box binding homeobox 2	-5.889	0.78	0.00003
1416652_at	NM_025711	Aspn	asporin	-5.624	0.69	0.00003
1448823_at	BC006640	Cxcl12	chemokine (C-X-C motif) ligand 12	-5.412	0.64	0.00003
1451287_s_at	BC024599	2810003C17Rik	RIKEN cDNA 2810003C17 gene	-5.310	0.72	0.00003
1428538_s_at	BI328146	Rarres2	retinoic acid receptor responder (tazarotene induced) 2	-4.754	0.67	0.00003
1448421_s_at	NM_025711	Aspn	asporin	-4.746	0.69	0.00003
1423586_at	AA500897	Axl	AXL receptor tyrosine kinase	-4.709	0.73	0.00003
1427932_s_at	BI076834	1200016E24Rik	RIKEN cDNA 1200016E24 gene	-4.659	0.73	0.00003
1435137_s_at	BB119177	1200016E24Rik	Mus musculus mVL30-1 retroelement mRNA sequence.	-4.636	0.76	0.00003
1453238_s_at	AU018141	A130040M12Rik	Mus musculus mVL30-1 retroelement mRNA sequence.	-4.534	0.71	0.00004
1449109_at	NM_007706	Socs2	suppressor of cytokine signaling 2	-4.528	0.71	0.00004
1437401_at	BG075165	Igf1	insulin-like growth factor 1	-4.509	0.63	0.00004
1426978_at	AW682368	Klhl2	kelch-like 2, Mayven (Drosophila)	-4.491	0.57	0.00004
1437902_s_at	AV012073	Rarres2	retinoic acid receptor responder (tazarotene induced) 2	-4.450	0.70	0.00004
1416625_at	NM_009776	Serping1	serine (or cysteine) peptidase inhibitor, clade G, member 1	-4.405	0.75	0.00004
1423506_a_at	AV218841	Nnat	neuronatin	-4.401	0.31	0.00004
1451130_at	AF353245	2010315L10Rik	RIKEN cDNA 2010315L10 gene	-4.379	0.76	0.00005
1417788_at	NM_011430	Sncg	synuclein, gamma	-4.329	0.52	0.00005
1428774_at	AK020118	Gpc6	glypican 6	-4.311	0.78	0.00005
1423156_at	AK008566	Gnpat1	glucosamine-phosphate N-acetyltransferase 1	-4.146	0.76	0.00006
1422527_at	NM_010386	H2-DMa	histocompatibility 2, class II, locus DMA	-4.133	0.75	0.00006
1435290_x_at	BE688749	H2-Aa	histocompatibility 2, class II antigen A, alpha	-4.116	0.69	0.00006
1450876_at	AI987976	Cfh	complement component factor h	-4.105	0.64	0.00006
1419663_at	BB542051	Ogn	osteoglycin	-4.082	0.68	0.00007
1454822_x_at	BB271021	Apcdd1	adenomatosis polyposis coli down-regulated 1	-4.078	0.61	0.00007
1438467_at	AW494220	Mgl2	macrophage galactose N-acetyl-galactosamine specific lectin 2	-4.062	0.75	0.00007
1452431_s_at	AF119253	H2-Aa	histocompatibility 2, class II antigen A, alpha	-4.039	0.65	0.00007
1435640_x_at	BE634869	A130040M12Rik	RIKEN cDNA A130040M12 gene	-4.035	0.71	0.00007
1419662_at	BB542051	Ogn	osteoglycin	-3.976	0.71	0.00008
1451563_at	AF396935	Emr4	EGF-like module containing, mucin-like, hormone receptor-like sequence 4	-3.968	0.78	0.00008
1422703_at	BF683028	Gyk	glycerol kinase	-3.964	0.71	0.00008
1438665_at	BF456582	Smpd3	sphingomyelin phosphodiesterase 3, neutral	-3.962	0.80	0.00008
1424305_at	BC006026	Igj	immunoglobulin joining chain	-3.955	0.50	0.00008
1425477_x_at	M15848	H2-Ab1	histocompatibility 2, class II antigen A, beta 1	-3.882	0.63	0.00009
1452244_at	AK018128	6330406I15Rik	RIKEN cDNA 6330406I15 gene	-3.880	0.73	0.00009

1449456_a_at	NM_010780	Cma1	chymase 1, mast cell	-3.822	0.70	0.00010
1427202_at	AV002340	4833442J19Rik	RIKEN cDNA 4833442J19 gene	-3.813	0.74	0.00011
1420703_at	BM941868	Csf2ra	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)	-3.779	0.77	0.00011
1451721_a_at	M15848	H2-Ab1	histocompatibility 2, class II antigen A, beta 1	-3.720	0.66	0.00013
1426937_at	AK018128	6330406I15Rik	RIKEN cDNA 6330406I15 gene	-3.705	0.71	0.00013
1425763_x_at	BC019425	Igh-VJ558	immunoglobulin heavy chain (J558 family)	-3.701	0.70	0.00013
1452417_x_at	AV057155	Igk-V28	immunoglobulin kappa chain variable 28 (V28)	-3.673	0.51	0.00014
1450649_at	NM_025277	Gng10	guanine nucleotide binding protein (G protein), gamma 10	-3.668	0.74	0.00015
1420924_at	M93954	Timp2	tissue inhibitor of metalloproteinase 2	-3.650	0.70	0.00015
1422704_at	BF683028	Gyk	glycerol kinase	-3.643	0.70	0.00015
1415973_at	AW546141	Marcks	myristoylated alanine rich protein kinase C substrate	-3.636	0.79	0.00016
1448406_at	BC010712	Eid1	EP300 interacting inhibitor of differentiation 1	-3.618	0.73	0.00016
1434423_at	BB138485	Gulp1	GULP, engulfment adaptor PTB domain containing 1	-3.617	0.58	0.00016
1422412_x_at	NM_017388	Ear3	eosinophil-associated, ribonuclease A family, member 3	-3.605	0.45	0.00017
1426172_a_at	AF374470	Cd209a	CD209a antigen	-3.575	0.70	0.00018
1458351_s_at	BB428573	Klhl2	kelch-like 2, Mayven (Drosophila)	-3.571	0.64	0.00018
1422411_s_at	NM_017388	Ear3	eosinophil-associated, ribonuclease A family, member 3	-3.543	0.46	0.00020
1423153_x_at	AI987976	Cfh	complement component factor h	-3.535	0.69	0.00020
1453839_a_at	AK004672	Pi16	peptidase inhibitor 16	-3.534	0.69	0.00020
1437939_s_at	BM237633	Ctsc	cathepsin C	-3.533	0.72	0.00020
1448021_at	AA266723	4930431B09Rik	RIKEN cDNA 4930431B09 gene	-3.497	0.73	0.00021
1417789_at	NM_011330	Ccl11	small chemokine (C-C motif) ligand 11	-3.490	0.73	0.00022
1435710_at	BB034038	AI661384	expressed sequence AI661384	-3.477	0.77	0.00022
1443783_x_at	AV086906	H2-Aa	histocompatibility 2, class II antigen A, alpha	-3.454	0.68	0.00023
1419905_s_at	AV026552	Hpgd	hydroxyprostaglandin dehydrogenase 15 (NAD)	-3.449	0.79	0.00023
1434413_at	BG092677	EST	EST	-3.439	0.60	0.00024
1421187_at	BB148128	Ccr2	chemokine (C-C motif) receptor 2	-3.439	0.72	0.00024
1436713_s_at	BM119226	Gtl2	GTL2, imprinted maternally expressed untranslated mRNA	-3.434	0.76	0.00024
1426015_s_at	AF302653	Asph	aspartate-beta-hydroxylase	-3.432	0.77	0.00024
1434881_s_at	BM220945	Kctd12	potassium channel tetramerisation domain containing 12	-3.423	0.77	0.00025
1418454_at	NM_015776	Mfap5	microfibrillar associated protein 5	-3.410	0.76	0.00026
1424041_s_at	BC022123	C1s	complement component 1, s subcomponent	-3.405	0.76	0.00026
1450648_s_at	NM_010379	H2-Ab1	histocompatibility 2, class II antigen A, beta 1	-3.405	0.67	0.00026
1449533_at	NM_026433	Tmem100	transmembrane protein 100	-3.391	0.68	0.00027
1437079_at	AV334638	Slc18a2	solute carrier family 18 (vesicular monoamine), member 2	-3.369	0.73	0.00028
1435518_at	BM246972	Rap1b	RAS related protein 1b	-3.367	0.73	0.00029
1450655_at	AA214868	Pten	phosphatase and tensin homolog	-3.355	0.79	0.00029
1450792_at	NM_011662	Tyrobp	TYRO protein tyrosine kinase binding protein	-3.346	0.72	0.00030
1418507_s_at	NM_007706	Socs2	suppressor of cytokine signaling 2	-3.336	0.72	0.00031
1423158_at	AK008566	Gnpat1	glucosamine-phosphate N-acetyltransferase 1	-3.326	0.76	0.00031
1417111_at	BB070019	Man1a	mannosidase 1, alpha	-3.319	0.77	0.00032
1428909_at	C85657	A130040M12Rik	RIKEN cDNA A130040M12 gene	-3.298	0.73	0.00033

1418697_at	NM_009349	Inmt	indolethylamine N-methyltransferase	-3.288	0.78	0.00034
1427660_x_at	BC013496	Igk-V28	immunoglobulin kappa chain variable 28 (V28)	-3.270	0.53	0.00035
1419519_at	NM_010512	Igf1	insulin-like growth factor 1	-3.267	0.66	0.00035
1456700_x_at	BB100920	Marcks	myristoylated alanine rich protein kinase C substrate	-3.248	0.79	0.00037
1418382_at	BB770932	Apcdd1	adenomatosis polyposis coli down-regulated 1	-3.246	0.64	0.00037
1453321_at	AK003938	Fndc1	fibronectin type III domain containing 1	-3.242	0.69	0.00037
1426183_a_at	AF440280	Cd209d	CD209d antigen	-3.241	0.69	0.00037
1427455_x_at	BI107286	Igk-V28	immunoglobulin kappa chain variable 28 (V28)	-3.218	0.44	0.00040
1427053_at	BC026627	Abi3bp	ABI gene family, member 3 (NESH) binding protein	-3.197	0.76	0.00042
1452031_at	BB357585	Slc1a3	solute carrier family 1 (glial high affinity glutamate transporter), member 3	-3.192	0.56	0.00042
1453771_at	BF144687	Gulp1	GULP, engulfment adaptor PTB domain containing 1	-3.181	0.64	0.00043
1425829_a_at	AY029778	Steap4	STEAP family member 4	-3.179	0.64	0.00043
1419280_at	AK012196	Pip5k2a	phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	-3.169	0.73	0.00044
1438858_x_at	AV018723	H2-Aa	histocompatibility 2, class II antigen A, alpha	-3.150	0.79	0.00045
1456676_a_at	AV282911	Pfkfb3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	-3.146	0.75	0.00046
1460197_a_at	NM_054098	Steap4	STEAP family member 4	-3.143	0.69	0.00046
1452463_x_at	BG966217	Igk-V28	immunoglobulin kappa chain variable 28 (V28)	-3.135	0.41	0.00047
1419194_s_at	NM_022024	Gmfg	glia maturation factor, gamma	-3.132	0.69	0.00048
1451527_at	AF352788	Pcolce2	procollagen C-endopeptidase enhancer 2	-3.130	0.61	0.00048
1417029_a_at	BB283676	Trim2	tripartite motif protein 2	-3.110	0.79	0.00050
1424099_at	BC019664	2310016C16Rik	RIKEN cDNA 2310016C16 gene	-3.101	0.79	0.00051
1429381_x_at	AK007826	Igh-VJ558	immunoglobulin heavy chain (J558 family)	-3.091	0.73	0.00052
1416697_at	NM_010074	Dpp4	dipeptidylpeptidase 4	-3.085	0.67	0.00052
1423439_at	AW106963	Pck1	phosphoenolpyruvate carboxykinase 1, cytosolic	-3.082	0.43	0.00053
1443906_at	BE686894	Cd55	CD55 antigen	-3.081	0.69	0.00053
1431385_a_at	AK002809	Mbtps1	membrane-bound transcription factor peptidase, site 1	-3.076	0.73	0.00054
1421854_at	BF136544	Fgl2	fibrinogen-like protein 2	-3.068	0.74	0.00055
1433728_at	AV367395	BC038479	cDNA sequence BC038479	-3.064	0.63	0.00055
1448291_at	NM_013599	Mmp9	matrix metalloproteinase 9	-3.063	0.60	0.00056
1420620_a_at	NM_011883	Rnf13	ring finger protein 13	-3.062	0.80	0.00056
1417126_a_at	NM_026517	Rpl22l1	ribosomal protein L22 like 1	-3.058	0.79	0.00056
1419144_at	NM_053094	Cd163	CD163 antigen	-3.030	0.61	0.00061
1423261_at	BB426248	1500015O10Rik	RIKEN cDNA 1500015O10 gene	-3.025	0.76	0.00062
1433727_at	AV367395	BC038479	cDNA sequence BC038479	-3.019	0.63	0.00063
1427285_s_at	AW012617	Malat1	metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA)	-3.001	0.77	0.00066
1423756_s_at	BC019836	Igfbp4	insulin-like growth factor binding protein 4	-3.001	0.80	0.00066
1449070_x_at	BB770932	Apcdd1	adenomatosis polyposis coli down-regulated 1	-2.991	0.63	0.00068
1427054_s_at	BC026627	Abi3bp	ABI gene family, member 3 (NESH) binding protein	-2.980	0.75	0.00070
1436954_at	C76969	Wipf1	WAS/WASL interacting protein family, member 1	-2.963	0.75	0.00073
1416221_at	BI452727	Fstl1	follistatin-like 1	-2.958	0.75	0.00074
1439617_s_at	AI265463	Pck1	phosphoenolpyruvate carboxykinase 1, cytosolic	-2.958	0.38	0.00074
1442019_at	BB627097	Rcvrn	recoverin	-2.957	0.69	0.00074

1418383_at	BB770932	Apcdd1	adenomatosis polyposis coli down-regulated 1	-2.952	0.58	0.00075
1426708_at	BC003908	Antxr2	anthrax toxin receptor 2	-2.950	0.75	0.00075
1420731_a_at	NM_007792	Csrp2	cysteine and glycine-rich protein 2	-2.918	0.76	0.00082
1460423_x_at	U29768	Igkv1-117	immunoglobulin kappa chain variable 1-117	-2.914	0.58	0.00083
1449262_s_at	BB704337	Lin7c	lin-7 homolog C (C. elegans)	-2.913	0.77	0.00083
1456398_at	BB648848	Tug1	taurine upregulated gene 1	-2.906	0.77	0.00085
1455795_at	BM207218	Dse	dermatan sulfate epimerase	-2.901	0.79	0.00086
1429775_a_at	AK009736	Gpr137b	G protein-coupled receptor 137B	-2.898	0.80	0.00087
1449971_a_at	NM_026956	Cd209f	CD209f antigen	-2.898	0.73	0.00087
1421992_a_at	NM_010517	Igfbp4	insulin-like growth factor binding protein 4	-2.897	0.79	0.00087
1420398_at	BB139986	Rgs18	regulator of G-protein signaling 18	-2.893	0.73	0.00088
1417222_a_at	NM_133739	Tmem123	transmembrane protein 123	-2.891	0.78	0.00088
1449015_at	NM_020509	Retnla	resistin like alpha	-2.891	0.73	0.00088
1443749_x_at	BB085413	Slc1a3	solute carrier family 1 (glial high affinity glutamate transporter), member 3	-2.890	0.71	0.00089
1449298_a_at	NM_016744	Pde1a	phosphodiesterase 1A, calmodulin-dependent	-2.874	0.79	0.00093
1424186_at	BG074158	Ccdc80	coiled-coil domain containing 80	-2.874	0.79	0.00093
1425519_a_at	BC003476	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	-2.872	0.69	0.00093
1421653_a_at	NM_134051	Igh-VJ558	immunoglobulin heavy chain (J558 family)	-2.858	0.73	0.00096
1450231_a_at	BF137345	Birc4	baculoviral IAP repeat-containing 4	-2.857	0.76	0.00097
1460049_s_at	BB392676	1500015O10Rik	RIKEN cDNA 1500015O10 gene	-2.855	0.69	0.00097
1421321_a_at	NM_019671	Net1	neuroepithelial cell transforming gene 1	-2.837	0.77	0.00101
1439426_x_at	AV058500	Lyzs	lysozyme	-2.833	0.72	0.00103
1450084_s_at	NM_054102	Ivns1abp	influenza virus NS1A binding protein	-2.832	0.76	0.00103
1416111_at	NM_009856	Cd83	CD83 antigen	-2.822	0.70	0.00106
1451941_a_at	M14216	Fcgr2b	Fc receptor, IgG, low affinity IIb	-2.820	0.71	0.00106
1451415_at	BC016562	1810011O10Rik	RIKEN cDNA 1810011O10 gene	-2.815	0.79	0.00108
1454157_a_at	AK004232	Pla2g2d	phospholipase A2, group IID	-2.809	0.66	0.00111
1433639_at	AW548096	5730593F17Rik	RIKEN cDNA 5730593F17 gene	-2.808	0.76	0.00111
1424524_at	BC021433	1200002N14Rik	RIKEN cDNA 1200002N14 gene	-2.799	0.77	0.00114
1426341_at	BB357585	Slc1a3	solute carrier family 1 (glial high affinity glutamate transporter), member 3	-2.786	0.62	0.00118
1425216_at	AV370830	Ffar2	free fatty acid receptor 2	-2.784	0.73	0.00119
1431645_a_at	AK013104	Gdi2	guanosine diphosphate (GDP) dissociation inhibitor 2	-2.782	0.75	0.00119
1452279_at	BB800282	Cfp	complement factor properdin	-2.778	0.77	0.00121
1442312_at	BM229258	Tb11xr1	transducin (beta)-like 1X-linked receptor 1	-2.775	0.78	0.00122
1421394_a_at	BF137345	Birc4	baculoviral IAP repeat-containing 4	-2.769	0.78	0.00124
1438556_a_at	BB224629	Tmod3	tropomodulin 3	-2.762	0.80	0.00127
1450822_at	NM_013590	Lyz	lysozyme	-2.759	0.78	0.00129
1452071_at	BE655147	Slc4a4	solute carrier family 4 (anion exchanger), member 4	-2.715	0.78	0.00144
1431606_a_at	AK012003	Angel2	angel homolog 2 (Drosophila)	-2.710	0.80	0.00145
1428043_a_at	AB061276	Cmah	cytidine monophospho-N-acetylneuraminic acid hydroxylase	-2.709	0.80	0.00146

1432517_a_at	AK006371	Nnmt	nicotinamide N-methyltransferase	-2.698	0.56	0.00152
1416072_at	NM_133654	Cd34	CD34 antigen	-2.696	0.77	0.00152
1417714_x_at	NM_008218	Hba-a1	hemoglobin alpha, adult chain 1	-2.689	0.66	0.00155
1421991_a_at	NM_010517	Igfbp4	insulin-like growth factor binding protein 4	-2.680	0.79	0.00160
1425832_a_at	AF301018	Cxcr6	chemokine (C-X-C motif) receptor 6	-2.673	0.74	0.00163
1449918_at	NM_027343	Cd209g	CD209g antigen	-2.669	0.70	0.00165
1417009_at	NM_023143	C1r	complement component 1, r subcomponent	-2.667	0.79	0.00166
1436319_at	BB751459	Sulf1	sulfatase 1	-2.665	0.77	0.00167
1434681_at	BG069603	4932441K18Rik	RIKEN cDNA 4932441K18 gene	-2.647	0.78	0.00175
1420664_s_at	NM_011171	Procr	protein C receptor, endothelial	-2.643	0.77	0.00178
1420011_s_at	C77390	Xbp1	X-box binding protein 1	-2.637	0.80	0.00181
1419279_at	AK012196	Pip5k2a	phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	-2.630	0.79	0.00184
1420699_at	NM_020008	Clec7a	C-type lectin domain family 7, member a	-2.630	0.76	0.00184
1448259_at	BI452727	Fstl1	follistatin-like 1	-2.626	0.79	0.00187
1429693_at	AK017619	Dab2	disabled homolog 2 (Drosophila)	-2.626	0.79	0.00187
1452014_a_at	AF440694	Igf1	insulin-like growth factor 1	-2.616	0.70	0.00194
1427301_at	BE634960	Cd48	CD48 antigen	-2.615	0.68	0.00195
1452007_at	BC003764	Sybl1	synaptobrevin like 1	-2.609	0.79	0.00197
1417426_at	NM_011157	Srgn	serglycin	-2.605	0.74	0.00200
1448525_a_at	AK018668	Bnip3l	BCL2/adenovirus E1B interacting protein 3-like	-2.603	0.78	0.00201
1451204_at	BC016096	Scara5	scavenger receptor class A, member 5 (putative)	-2.602	0.76	0.00202
1424179_at	BC005565	Plekhj1	pleckstrin homology domain containing, family J member 1	-2.597	0.75	0.00205
1419368_a_at	NM_019706	Rnf138	ring finger protein 138	-2.595	0.79	0.00206
1418511_at	NM_019759	Dpt	dermatopontin	-2.592	0.74	0.00208
1416868_at	BC027026	Cdkn2c	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	-2.590	0.79	0.00208
1448919_at	NM_025422	Cd302	CD302 antigen	-2.587	0.77	0.00211
1422708_at	BB205102	Pik3cg	phosphoinositide-3-kinase, catalytic, gamma polypeptide	-2.585	0.79	0.00212
1456080_a_at	BM239368	Serinc3	serine incorporator 3	-2.579	0.76	0.00215
1433933_s_at	BB553107	Slco2b1	solute carrier organic anion transporter family, member 2b1	-2.573	0.80	0.00218
1450241_a_at	NM_010161	Evi2a	ecotropic viral integration site 2a	-2.570	0.77	0.00221
1455688_at	BB795075	Ddr2	discoidin domain receptor family, member 2	-2.567	0.76	0.00223
1429184_at	BM243571	Gvin1	GTPase, very large interferon inducible 1	-2.561	0.70	0.00227
1454174_a_at	AK021190	C330007P06Rik	RIKEN cDNA C330007P06 gene	-2.557	0.77	0.00230
1433512_at	BB138212	Fli1	Friend leukemia integration 1	-2.556	0.79	0.00231
1437417_s_at	BB493031	Gpc6	glypican 6	-2.556	0.79	0.00231
1423034_at	AK004219	Txn15	thioredoxin-like 5	-2.552	0.79	0.00233
1435477_s_at	BM224327	Fcgr2b	Fc receptor, IgG, low affinity IIb	-2.547	0.77	0.00237
1428046_a_at	BC028506	Zfx	zinc finger protein X-linked	-2.546	0.80	0.00237
1448417_at	NM_013610	Ninj1	ninjurin 1	-2.543	0.80	0.00239
1438200_at	BB065799	Sulf1	sulfatase 1	-2.539	0.76	0.00241
1417851_at	AF030636	Cxcl13	chemokine (C-X-C motif) ligand 13	-2.535	0.50	0.00244
1420899_at	AW542340	Rab18	RAB18, member RAS oncogene family	-2.534	0.79	0.00245
1452191_at	AK011112	Prpc	prolylcarboxypeptidase (angiotensinase C)	-2.533	0.79	0.00246

1434067_at	BE688410	AI662270	expressed sequence AI662270	-2.530	0.61	0.00248
1437772_s_at	BB225704	Hmgcl	3-hydroxy-3-methylglutaryl-Coenzyme A lyase	-2.526	0.78	0.00250
1423094_at	AV156594	Crbn	cereblon	-2.524	0.77	0.00251
1438069_a_at	BE446879	Rbm5	RNA binding motif protein 5	-2.523	0.79	0.00252
1417707_at	NM_133898	B230342M21Rik	RIKEN cDNA B230342M21 gene	-2.520	0.73	0.00256
1455364_a_at	AI414989	Rps7	ribosomal protein S7	-2.516	0.78	0.00258
1435519_at	BM246972	Rap1b	RAS related protein 1b	-2.515	0.76	0.00259
1452619_a_at	AI463408	Agbl3	ATP/GTP binding protein-like 3	-2.508	0.78	0.00264
1440125_at	BG072966	A530054K11Rik	RIKEN cDNA A530054K11 gene	-2.505	0.80	0.00267
1448527_at	AV094856	Pdcd10	programmed cell death 10	-2.500	0.78	0.00270
1422761_at	NM_030732	Tbl1xr1	transducin (beta)-like 1X-linked receptor 1	-2.482	0.79	0.00286
1454806_at	AV228737	D12Ertd553e	DNA segment, Chr 12, ERATO Doi 553, expressed	-2.480	0.77	0.00287
1448891_at	BC016551	Msr2	macrophage scavenger receptor 2	-2.476	0.79	0.00291
1417184_s_at	BC027434	Hbb-b2	hemoglobin, beta adult minor chain	-2.468	0.77	0.00298
1448620_at	NM_010188	Fcgr3	Fc receptor, IgG, low affinity III	-2.461	0.73	0.00304
1449670_x_at	AW546472	Gpr137b	G protein-coupled receptor 137B	-2.456	0.79	0.00308
1434484_at	AV006463	1100001G20Rik	RIKEN cDNA 1100001G20 gene	-2.453	0.67	0.00310
1418480_at	NM_023785	Ppbp	pro-platelet basic protein	-2.452	0.76	0.00311
1426604_at	BF714880	Rnasel	ribonuclease L (2', 5'-oligoisoadenylylate synthetase-dependent)	-2.444	0.75	0.00319
1422978_at	NM_007807	Cybb	cytochrome b-245, beta polypeptide	-2.424	0.79	0.00337
1434096_at	BB283443	Slc4a4	solute carrier family 4 (anion exchanger), member 4	-2.421	0.76	0.00340
1426340_at	BB357585	Slc1a3	solute carrier family 1 (glial high affinity glutamate transporter), member 3	-2.409	0.64	0.00353
1421555_at	NM_013462	Adrb3	adrenergic receptor, beta 3	-2.407	0.74	0.00355
1428361_x_at	AK011116	Hba-a1	hemoglobin alpha, adult chain 1	-2.402	0.74	0.00359
1449466_at	NM_011606	Clec3b	C-type lectin domain family 3, member b	-2.397	0.73	0.00365
1448995_at	NM_019932	Cxcl4	chemokine (C-X-C motif) ligand 4	-2.396	0.78	0.00365
1450430_at	NM_008625	Mrc1	mannose receptor, C type 1	-2.396	0.76	0.00366
1451174_at	BC027411	Lrrc33	leucine rich repeat containing 33	-2.390	0.80	0.00372
1455181_at	BM228516	Rasa2	RAS p21 protein activator 2	-2.387	0.80	0.00376
1417346_at	BG084230	Pycard	PYD and CARD domain containing	-2.385	0.80	0.00378
1460242_at	NM_010016	Cd55	CD55 antigen	-2.374	0.69	0.00388
1459973_x_at	BB228059	Dpp4	dipeptidylpeptidase 4	-2.372	0.73	0.00390
1426083_a_at	L16846	Btg1	B-cell translocation gene 1, anti-proliferative	-2.372	0.79	0.00391
1429954_at	AK014135	Clec4a3	C-type lectin domain family 4, member a3	-2.366	0.74	0.00397
1439819_at	BG070233	AU015263	expressed sequence AU015263	-2.360	0.79	0.00404
1448623_at	NM_133739	Tmem123	transmembrane protein 123	-2.359	0.80	0.00405
1424927_at	BC025083	Glipr1	GLI pathogenesis-related 1 (glioma)	-2.356	0.75	0.00409
1449928_at	NM_025975	Dynlt3	dynein light chain Tctex-type 3	-2.352	0.76	0.00414
1449580_s_at	NM_010388	H2-DMb2	histocompatibility 2, class II, locus Mb2	-2.343	0.79	0.00425
1452016_at	BC026209	Alox5ap	arachidonate 5-lipoxygenase activating protein	-2.343	0.79	0.00426
1434955_at	BB134696	March1	membrane-associated ring finger (C3HC4) 1	-2.340	0.66	0.00430
1417932_at	NM_008360	Il18	interleukin 18	-2.338	0.78	0.00431

1417756_a_at	NM_019391	Lsp1	lymphocyte specific 1	-2.336	0.74	0.00434
1447909_s_at	AW122690	6720457D02Rik	RIKEN cDNA 6720457D02 gene	-2.333	0.77	0.00438
1420502_at	NM_009121	Sat1	spermidine/spermine N1-acetyl transferase 1	-2.327	0.77	0.00444
1427471_at	BF782863	Fbxl3	F-box and leucine-rich repeat protein 3	-2.321	0.79	0.00453
1417069_a_at	BG228815	Gmfb	glia maturation factor, beta	-2.312	0.77	0.00464
1418762_at	NM_010016	Cd55	CD55 antigen	-2.311	0.74	0.00465
1419585_at	BF168611	Rp2h	retinitis pigmentosa 2 homolog (human)	-2.309	0.77	0.00467
1422470_at	NM_009760	Bnip3	BCL2/adenovirus E1B interacting protein 1, NIP3	-2.308	0.79	0.00468
1453736_s_at	BG923812	B230219D22Rik	RIKEN cDNA B230219D22 gene	-2.307	0.79	0.00469
1452348_s_at	AI481797	Irf205	interferon activated gene 205	-2.300	0.71	0.00481
1435959_at	BM246535	Arhgap15	Rho GTPase activating protein 15	-2.300	0.70	0.00482
1421073_a_at	NM_008965	Ptger4	prostaglandin E receptor 4 (subtype EP4)	-2.294	0.78	0.00490
1417239_at	BC002162	Cetn3	centrin 3	-2.287	0.76	0.00503
1425407_s_at	BC006623	Clec4a2	C-type lectin domain family 4, member a2	-2.282	0.80	0.00509
1422748_at	NM_015753	Zeb2	zinc finger E-box binding homeobox 2	-2.276	0.79	0.00517
1448136_at	BC003264	Enpp2	ectonucleotide pyrophosphatase/phosphodiesterase 2	-2.274	0.79	0.00521
1450417_a_at	BG070206	Rps20	ribosomal protein S20	-2.273	0.78	0.00523
1421855_at	BF136544	Fgl2	fibrinogen-like protein 2	-2.271	0.79	0.00526
1437064_at	AV232123	Ar	androgen receptor	-2.270	0.80	0.00527
1422542_at	NM_011823	Gpr34	G protein-coupled receptor 34	-2.267	0.71	0.00531
1430074_x_at	AI607344	8430426H19Rik	RIKEN cDNA 8430426H19 gene	-2.260	0.77	0.00544
1438411_at	BB009113	Gpr109a	G protein-coupled receptor 109A	-2.257	0.61	0.00549
1444051_at	AA215046	5830405N20Rik	RIKEN cDNA 5830405N20 gene	-2.252	0.78	0.00557
1425701_a_at	AF350047	Rgs3	regulator of G-protein signaling 3	-2.250	0.79	0.00561
1420867_at	BB609648	Tmed2	transmembrane emp24 domain trafficking protein 2	-2.247	0.78	0.00565
1436996_x_at	AV066625	Lyz	lysozyme	-2.242	0.77	0.00575
1447926_at	BB811124	Arl5a	ADP-ribosylation factor-like 5A	-2.216	0.79	0.00619
1423593_a_at	AK004947	Csf1r	colony stimulating factor 1 receptor	-2.211	0.79	0.00629
1427262_at	L04961	Xist	inactive X specific transcripts	-2.210	0.80	0.00631
1430332_a_at	AK002832	Gusb	glucuronidase, beta	-2.203	0.80	0.00641
1423547_at	AW208566	Lyzs	lysozyme	-2.196	0.75	0.00654
1419073_at	NM_019790	Tmeff2	transmembrane protein with EGF-like and two follistatin-like domains 2	-2.185	0.71	0.00677
1421184_a_at	NM_027334	Mettl7a	methyltransferase like 7A	-2.179	0.76	0.00689
1449404_at	AK012196	Pip5k2a	phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	-2.178	0.80	0.00691
1429379_at	AV124537	Xlkd1	extra cellular link domain-containing 1	-2.173	0.62	0.00702
1424187_at	BG074158	Ccdc80	coiled-coil domain containing 80	-2.172	0.77	0.00703
1425797_a_at	U36776	Syk	spleen tyrosine kinase	-2.165	0.80	0.00720
1426649_at	BM114154	Tmeff1	transmembrane protein with EGF-like and two follistatin-like domains 1	-2.164	0.79	0.00722
1422812_at	NM_030712	Cxcr6	chemokine (C-X-C motif) receptor 6	-2.163	0.77	0.00723
1417130_s_at	NM_020581	Angptl4	angiopoietin-like 4	-2.161	0.79	0.00726
1452349_x_at	AI481797	Irf205	interferon activated gene 205	-2.150	0.78	0.00750
1419532_at	NM_010555	Il1r2	interleukin 1 receptor, type II	-2.150	0.73	0.00751

1436172_at	BQ175154	Samd9l	sterile alpha motif domain containing 9-like	-2.147	0.78	0.00757
1449265_at	BC008152	Casp1	caspase 1	-2.145	0.80	0.00761
1433963_a_at	BG066664	BC032204	cDNA sequence BC032204	-2.136	0.64	0.00782
1415905_at	NM_009042	Reg1	regenerating islet-derived 1	-2.125	0.78	0.00808
1426398_at	BB796558	Ube2w	ubiquitin-conjugating enzyme E2W (putative)	-2.119	0.80	0.00823
1460437_at	AK010908	Pscd4	pleckstrin homology, Sec7 and coiled/coil domains 4	-2.116	0.76	0.00829
1455918_at	BB224790	Adrb3	adrenergic receptor, beta 3	-2.106	0.77	0.00854

Supplemental Table 2:

Upregulated mammary gland genes in isolated mice at 15 weeks as identified using RMA (n = 68)

Probe set	Accession	Gene symbol	Gene name	SAM score	FC	pval
1419358_at	NM_030889	Sorcs2	sortilin-related VPS10 domain containing receptor 2	6.453	1.56	0.00002
1451190_a_at	BC025837	Sbk1	SH3-binding kinase 1	5.610	1.70	0.00003
1449833_at	NM_011472	Sprr2f	small proline-rich protein 2F	5.350	1.96	0.00003
1420437_at	NM_008324	Indo	indoleamine-pyrrole 2,3 dioxygenase	4.815	1.57	0.00003
1428228_at	AK013402	Pgm3	phosphoglucomutase 3	4.813	1.46	0.00003
1436605_at	BB022982	Tkt	transketolase	4.762	1.62	0.00003
1446074_at	BB667876	Mosc1	MOCO sulphurase C-terminal domain containing 1	4.553	1.39	0.00004
1440838_at	BQ126997	AI852064	expressed sequence AI852064	4.516	1.32	0.00004
1455342_at	BM232966	A230083H22Rik	RIKEN cDNA A230083H22 gene	4.320	1.41	0.00005
1427481_a_at	BC027114	Atp1a3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide	4.277	1.74	0.00005
1447606_x_at	AV047063	Aqp11	aquaporin 11	4.234	1.42	0.00005
1457928_at	AV280630	4930435E12Rik	RIKEN cDNA 4930435E12 gene	4.169	1.27	0.00006
1421262_at	BC020991	Lipg	lipase, endothelial	4.084	1.38	0.00007
1448424_at	U91905	Frzb	frizzled-related protein	4.069	1.52	0.00007
1457033_at	BM198753	BQ559217	expressed sequence BQ559217	3.941	1.32	0.00008
1444091_a_at	BB048100	6430571L13Rik	RIKEN cDNA 6430571L13 gene	3.846	1.34	0.00010
1415822_at	BG060909	Scd1	stearoyl-Coenzyme A desaturase 1	3.840	1.45	0.00010
1455099_at	BB414982	Mogat2	monoacylglycerol O-acyltransferase 2	3.622	1.33	0.00016
1439016_x_at	AV371678	Sprr2a	small proline-rich protein 2A	3.601	1.26	0.00017
1436630_at	AI550443	Aqp11	aquaporin 11	3.571	1.34	0.00018
1419185_a_at	AF245479	Mlxipl	MLX interacting protein-like	3.524	1.53	0.00020
1423978_at	BC025837	Sbk1	SH3-binding kinase 1	3.518	1.60	0.00021
1418395_at	NM_026183	1300013J15Rik	RIKEN cDNA 1300013J15 gene	3.421	1.35	0.00025
1428005_at	AA958845	Mosc1	MOCO sulphurase C-terminal domain containing 1	3.404	1.92	0.00026
1448619_at	NM_007856	Dhcr7	7-dehydrocholesterol reductase	3.337	1.37	0.00031
1443017_at	BB235708	Cpeb2	cytoplasmic polyadenylation element binding protein 2	3.308	1.36	0.00032
1457141_at	BB229969	Aqp11	aquaporin 11	3.283	1.89	0.00034
1443997_at	BB387595	Gprin2	G protein regulated inducer of neurite outgrowth 2	3.199	1.31	0.00042
1446542_at	AW553564	Gss	glutathione synthetase	3.166	1.59	0.00045
1434188_at	AV220703	Slc16a12	solute carrier family 16 (monocarboxylic acid transporters), member 12	3.134	1.30	0.00047
1420013_s_at	C77434	Lss	lanosterol synthase	3.100	1.30	0.00051
1446315_at	BB261367	Acly	ATP citrate lyase	3.088	1.39	0.00052
1436702_at	BE989731	Nat8l	N-acetyltransferase 8-like	3.079	1.69	0.00053
1450188_s_at	BC020991	Lipg	lipase, endothelial	3.068	1.50	0.00055
1416639_at	NM_019741	Slc2a5	solute carrier family 2 (facilitated glucose transporter), member 5	3.042	1.35	0.00059
1453552_at	AK009336	2310014F07Rik	RIKEN cDNA 2310014F07 gene	3.042	1.30	0.00059
1448318_at	NM_007408	Adfp	adipose differentiation related protein	3.036	1.28	0.00060
1429463_at	BB612385	Prkaa2	protein kinase, AMP-activated, alpha 2 catalytic subunit	3.020	1.31	0.00063

1422612_at	NM_013820	Hk2	hexokinase 2	3.013	1.39	0.00064
1456241_a_at	BB315716	1810073N04Rik	RIKEN cDNA 1810073N04 gene	2.990	1.28	0.00068
1423179_at	BB324482	Kcnb1	potassium voltage gated channel, Shab-related subfamily, member 1	2.988	1.53	0.00068
1438627_x_at	BB095413	Pgd	phosphogluconate dehydrogenase	2.985	1.44	0.00069
1459689_at	BE331869	Gpd2	glycerol phosphate dehydrogenase 2, mitochondrial	2.948	1.29	0.00076
1429267_at	AW060409	Acot11	acyl-CoA thioesterase 11	2.948	1.29	0.00076
1457460_at	BB011474	Acss2	acyl-CoA synthetase short-chain family member 2	2.944	1.53	0.00076
1418311_at	NM_022014	Fn3k	fructosamine 3 kinase	2.941	1.38	0.00078
1418936_at	BC022952	Maff	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian)	2.940	1.46	0.00078
1418760_at	AB030503	Rdh11	retinol dehydrogenase 11	2.923	1.47	0.00081
1423180_at	BB324482	Kcnb1	potassium voltage gated channel, Shab-related subfamily, member 1	2.880	1.27	0.00091
1434679_at	BM945195	Ncan	neurocan	2.843	1.45	0.00100
1436729_at	AV328634	2600003E23Rik	RIKEN cDNA 2600003E23 gene	2.841	1.29	0.00100
1444810_at	BG065305	Acaca	acetyl-Coenzyme A carboxylase alpha	2.841	1.56	0.00100
1452741_s_at	BQ175968	Gpd2	glycerol phosphate dehydrogenase 2, mitochondrial	2.822	1.29	0.00106
1458680_at	AV291985	Heph11	hephaestin-like 1	2.796	1.43	0.00115
1456495_s_at	BG070848	Osbp16	oxysterol binding protein-like 6	2.779	1.26	0.00120
1426811_at	BB080065	Ppp2r5b	protein phosphatase 2, regulatory subunit B (B56), beta isoform	2.764	1.29	0.00127
1434272_at	AV231491	Cpeb2	cytoplasmic polyadenylation element binding protein 2	2.762	1.38	0.00128
1433182_at	AK015278	4930431N21Rik	RIKEN cDNA 4930431N21 gene	2.738	1.30	0.00136
1417067_s_at	AK014605	Cabc1	chaperone, ABC1 activity of bc1 complex like (S. pombe)	2.703	1.31	0.00149
1436771_x_at	BB314208	Pgd	phosphogluconate dehydrogenase	2.702	1.48	0.00149
1437380_x_at	BB558114	Pgd	phosphogluconate dehydrogenase	2.695	1.48	0.00153
1458099_at	BB291417	EST	EST	2.692	1.46	0.00154
1423437_at	AI172943	Gsta3	glutathione S-transferase, alpha 3	2.678	1.41	0.00160
1452345_at	AF237628	Lmod2	leiomodoin 2 (cardiac)	2.676	1.43	0.00161
1448663_s_at	NM_138656	Mvd	mevalonate (diphospho) decarboxylase	2.637	1.29	0.00180
1442656_at	BG066936	Elov16	ELOVL family member 6, elongation of long chain fatty acids (yeast)	2.637	1.48	0.00181
1449563_at	NM_007727	Cntn1	contactin 1	2.633	1.34	0.00182
1441581_at	AV233423	Asb10	ankyrin repeat and SOCS box-containing protein 10	2.632	1.27	0.00183

Supplemental Table 3:

Downregulated murine mammary gland genes with shared human orthologues that are also downregulated in response to GR activation (n = 54)

Mouse Probe	Accession	Gene symbol	Gene name	Human Orthologous Probe
1449109_at	NM_007706	Socs2	suppressor of cytokine signaling 2	203373_at
1426978_at	AW682368	Klhl2	kelch-like 2, Mayven (Drosophila)	219157_at
1428774_at	AK020118	Gpc6	glypican 6	227059_at
1422527_at	NM_010386	H2-DMA	histocompatibility 2, class II, locus DMA	217478_s_at
1420703_at	BM941868	Csf2ra	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)	211287_x_at
1415973_at	AW546141	Marcks	myristoylated alanine rich protein kinase C substrate	213002_at
1448406_at	BC010712	Eid1	EP300 interacting inhibitor of differentiation 1	211698_at
1458351_s_at	BB428573	Klhl2	kelch-like 2, Mayven (Drosophila)	219157_at
1437939_s_at	BM237633	Ctsc	cathepsin C	231234_at
1418454_at	NM_015776	Mfap5	microfibrillar associated protein 5	209758_s_at
1435518_at	BM246972	Rap1b	RAS related protein 1b	200833_s_at
1418507_s_at	NM_007706	Socs2	suppressor of cytokine signaling 2	203373_at
1417111_at	BB070019	Man1a	mannosidase 1, alpha	221760_at
1456700_x_at	BB100920	Marcks	myristoylated alanine rich protein kinase C substrate	213002_at
1419280_at	AK012196	Pip5k2a	phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	205570_at
1456676_a_at	AV282911	Pfkfb3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	202464_s_at
1451527_at	AF352788	Pcolce2	procollagen C-endopeptidase enhancer 2	219295_s_at
1424099_at	BC019664	2310016C16Rik	RIKEN cDNA 2310016C16 gene	228141_at
1426708_at	BC003908	Antxr2	anthrax toxin receptor 2	155536_at
1420731_a_at	NM_007792	Csrp2	cysteine and glycine-rich protein 2	211126_s_at
1449262_s_at	BB704337	Lin7c	lin-7 homolog C (C. elegans)	223350_x_at
1429775_a_at	AK009736	Gpr137b	G protein-coupled receptor 137B	204137_at
1450231_a_at	BF137345	Birc4	baculoviral IAP repeat-containing 4	243026_x_at
1421321_a_at	NM_019671	Net1	neuroepithelial cell transforming gene 1	201830_s_at
1450084_s_at	NM_054102	Ivns1abp	influenza virus NS1A binding protein	244235_at
1416111_at	NM_009856	Cd83	CD83 antigen	204440_at
1424524_at	BC021433	1200002N14Rik	RIKEN cDNA 1200002N14 gene	241992_at
1421394_a_at	BF137345	Birc4	baculoviral IAP repeat-containing 4	243026_x_at
1417009_at	NM_023143	C1r	complement component 1, r subcomponent	212067_s_at
1420011_s_at	C77390	Xbp1	X-box binding protein 1	200670_at
1419279_at	AK012196	Pip5k2a	phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	205570_at
1448525_a_at	AK018668	Bnip3l	BCL2/adenovirus E1B interacting protein 3-like	221479_s_at
1419368_a_at	NM_019706	Rnf138	ring finger protein 138	239143_x_at
1416868_at	BC027026	Cdkn2c	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	211792_s_at
1450241_a_at	NM_010161	Evi2a	ecotropic viral integration site 2a	204774_at
1437417_s_at	BB493031	Gpc6	glypican 6	227059_at
1435519_at	BM246972	Rap1b	RAS related protein 1b	200833_s_at

1449670_x_at	AW546472	Gpr137b	G protein-coupled receptor 137B	204137_at
1426604_at	BF714880	Rnasel	ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)	229285_at
1422978_at	NM_007807	Cybb	cytochrome b-245, beta polypeptide	233538_s_at
1424927_at	BC025083	Glpr1	GLI pathogenesis-related 1 (glioma)	226142_at
1449928_at	NM_025975	Dynlt3	dynein light chain Tctex-type 3	203303_at
1449580_s_at	NM_010388	H2-DMb2	histocompatibility 2, class II, locus Mb2	203932_at
1447909_s_at	AW122690	6720457D02Rik	RIKEN cDNA 6720457D02 gene	223070_at
1427471_at	BF782863	Fbxl3	F-box and leucine-rich repeat protein 3	242829_x_at
1417239_at	BC002162	Cetn3	centrin 3	209662_at
1448136_at	BC003264	Enpp2	ectonucleotide pyrophosphatase/phosphodiesterase 2	210839_s_at
1450417_a_at	BG070206	Rps20	ribosomal protein S20	200949_x_at
1437064_at	AV232123	Ar	androgen receptor	211621_at
1420867_at	BB609648	Tmed2	transmembrane emp24 domain trafficking protein 2	204427_s_at
1419073_at	NM_019790	Tmeff2	transmembrane protein with EGF-like and two follistatin-like domains 2	224321_at
1449404_at	AK012196	Pip5k2a	phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	205570_at
1426649_at	BM114154	Tmeff1	transmembrane protein with EGF-like and two follistatin-like domains 1	1555841_at
1449265_at	BC008152	Casp1	caspace 1	1552703_s_at

Supplemental Table 4:

Upregulated murine mammary gland genes with shared human orthologues that are also upregulated in response to GR activation

Mouse Probe	Accession	Gene symbol	Gene name	Human Orthologous Probe
1443017_at	BB235708	Cpeb2	cytoplasmic polyadenylation element binding protein 2	235462_at
1446542_at	AW553564	Gss	glutathione synthetase	234312_s_at
1420013_s_at	C77434	Lss	lanosterol synthase	211019_s_at
1446315_at	BB261367	Acly	ATP citrate lyase	210337_s_at
1457460_at	BB011474	Acss2	acyl-CoA synthetase short-chain family member 2	234312_s_at
1418936_at	BC022952	Maff	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian)	205193_at
1436729_at	AV328634	2600003E23Rik	RIKEN cDNA 2600003E23 gene	203563_at
1456495_s_at	BG070848	Osbp16	oxysterol binding protein-like 6	223805_at
1434272_at	AV231491	Cpeb2	cytoplasmic polyadenylation element binding protein 2	235462_at
1448663_s_at	NM_138656	Mvd	mevalonate (diphospho) decarboxylase	203027_s_at

Supplemental Table 5:

Downregulated mammary gland genes in isolated mice at 20 weeks as identified using RMA (n = 6)

Probe set	Accession	Gene symbol	Gene name	SAM score	FC	pval
1420369_a_at	NM_009972	Csn2	casein beta	-10.209	0.05	0.00004
1420627_a_at	NM_007784	Csn1s1	casein alpha s1	-9.529	0.52	0.00005
1420370_s_at	NM_009972	Csn2	casein beta	-8.902	0.25	0.00005
1431693_a_at	AK003506	Il17b	interleukin 17B	-7.627	0.76	0.00011
1436170_a_at	BF119305	Csn1s2a	casein alpha s2-like A	-6.450	0.14	0.00028
1427482_a_at	X61397	Car8	carbonic anhydrase 8	-6.068	0.68	0.00037

Supplemental Table 6:

Upregulated mammary gland genes in isolated mice at 20 weeks as identified using RMA (n = 18)

Probe set	Accession	Gene symbol	Gene name	SAM score	FC	pval
1452181_at	BB312117	Ckap4	cytoskeleton-associated protein 4	9.194	1.28	0.00005
1449169_at	NM_008216	Has2	hyaluronan synthase 2	8.351	1.85	0.00007
1455019_x_at	BB818012	Ckap4	cytoskeleton-associated protein 4	7.764	1.41	0.00010
1421172_at	NM_007400	Adam12	a disintegrin and metallopeptidase domain 12 (meltrin alpha)	7.050	1.42	0.00017
1460227_at	BC008107	Timp1	tissue inhibitor of metalloproteinase 1	6.836	1.68	0.00020
1451775_s_at	S80963	Il13ra1	interleukin 13 receptor, alpha 1	6.755	1.31	0.00021
1449454_at	AI647987	Bst1	bone marrow stromal cell antigen 1	6.308	2.16	0.00030
1419703_at	NM_016919	Col5a3	procollagen, type V, alpha 3	6.164	1.53	0.00034
1449453_at	AI647987	Bst1	bone marrow stromal cell antigen 1	6.115	1.90	0.00035
1426754_x_at	BB312117	Ckap4	cytoskeleton-associated protein 4	6.050	1.34	0.00038
1437811_x_at	AV312368			5.980	1.52	0.00040
1460188_at	NM_013545	Ptpn6	protein tyrosine phosphatase, non-receptor type 6	5.792	1.29	0.00049
1417730_at	NM_010162	Ext1	exostoses (multiple) 1	5.774	1.40	0.00050
1450871_a_at	X17502	Bcat1	branched chain aminotransferase 1, cytosolic	5.597	1.41	0.00060
1416165_at	NM_133685	Rab31	RAB31, member RAS oncogene family	5.540	1.30	0.00063
1415951_at	NM_010221	Fkbp10	FK506 binding protein 10	5.482	1.45	0.00067
1415857_at	BG064842	Emb	embigin	5.216	1.54	0.00087
1421171_at	NM_007400	Adam12	a disintegrin and metallopeptidase domain 12 (meltrin alpha)	5.123	1.42	0.00095