

UniGene	Clone ID	Gene Name	Little	SOCS2-/- Little
<b>Reduced genes by GH</b>				
Mm.1373	M200000541	<b>PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA (PPAR-ALPHA)</b>	-2.1993	-3.4945
Mm.21912	M200004250	SIMILAR TO F-BOX ONLY PROTEIN 21, ISOFORM 1; F-BOX PROTEIN 21.	-2.5685	-3.4557
Mm.21300	M200004104	<b>INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 1 PRECURSOR (IGFBP-1)</b>	-2.5070	-3.2957
Mm.142581	M200009401	Cyp2c55: cytochrome P450, family 2, subfamily c, polypeptide 55	1.1370	-3.0565
Mm.22701	M200004483	GROWTH-ARREST-SPECIFIC PROTEIN 1 (GAS-1).	-2.5303	-3.0424
Mm.33344	M200016354	DNA segment, Chr 14, ERATO Doi 449, expressed	-1.4459	-2.8058
Mm.41459	M200013605	2610039E05Rik: RIKEN cDNA 2610039E05 gene	-14.1399	-2.7951
Mm.42040	M200013852	ADENYLATE KINASE ISOENZYME 4, MITOCHONDRIAL (EC 2.7.4.3) (ATP-AMP TRANSP	-1.5873	-2.7568
Mm.279932	M200004527	B230342M21Rik: RIKEN cDNA B230342M21 gene	-1.5574	-2.6498
Mm.3459	M200001342	D-SITE-BINDING PROTEIN (ALBUMIN D BOX-BINDING PROTEIN).	-1.6602	-2.5616
Mm.28954	M200006246	RAS HOMOLOG GENE FAMILY, MEMBER U; WNT1 RESPONSIVE CDC42 HOMOLOG.	-1.3719	-2.4762
Mm.24510	M200004915	SOLUTE CARRIER FAMILY 12 MEMBER 7 (ELECTRONEUTRAL POTASSIUM-CHLORIDE	-1.5842	-2.4294
Mm.143717	M200009440	NEURONAL GUANINE NUCLEOTIDE EXCHANGE FACTOR; TRANSFORMING IMMORTA	-1.5125	-2.3723
Mm.21921	M200004253	CDC42 EFFECTOR PROTEIN 4 (BINDER OF RHO GTPASE 4).	-1.8896	-2.3436
Mm.20889	M200003984	CYTOCHROME P450 8B1 (EC 1.14.-.-) (CYPVIIIB1) (STEROL 12-ALPHA- HYDROXYLASE)	-1.0097	-2.3134
Mm.28943	M200006241	1300014I06Rik: RIKEN cDNA 1300014I06 gene	-2.3705	-2.3006
Mm.10709	M200002974	UDP-GLUCOSE 6-DEHYDROGENASE (EC 1.1.1.22) (UDP-GLC DEHYDROGENASE) (UDP-4	-1.0978	-2.2999
Mm.103581	M200008547	Slc23a2: Solute carrier family 23 (nucleobase transporters), member 2	-1.4575	-2.2246
Mm.171314	M200016372	Rgmc: RGM domain family, member C	-1.6299	-2.1992
Mm.260031	M200016243	CYTOCHROME P450 3A11 (EC 1.14.14.1) (CYP11A11) (P-450IIIAM1) (P- 450UT).	1.2140	-2.1945
Mm.24210	M200004828	BRANCHED-CHAIN AMINO ACID AMINOTRANSFERASE, MITOCHONDRIAL PRECURSOR	-2.1822	-2.1610
Mm.3634	M200001413	GENE RICH CLUSTER, C3F GENE; PUTATIVE TRANSMEMBRANE PROTEIN PTG.	-1.4274	-2.1336
Mm.252776	M200008744	Prkcn: protein kinase C, nu	-2.2321	-2.0956
Mm.33669	M200007395	CLAUDIN-1.	-2.5173	-2.0835
Mm.14781	M200016234	cytochrome P450, family 2, subfamily a, polypeptide 4	-1.1823	-2.0457
Mm.22216	M200004320	GLUCOCORTICOID-INDUCED LEUCINE ZIPPER PROTEIN.	-1.6104	-2.0373
Mm.3077	M200001178	ORPHAN NUCLEAR RECEPTOR NR1I3 (CONSTITUTIVE ANDROSTANE RECEPTOR) (CA	-2.5519	-2.0279
Mm.210196	M200015909	GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR (EC 2.	-1.7306	-2.0259
Mm.41409	M200013582	0610039J01Rik: RIKEN cDNA 0610039J01 gene	-1.7257	-2.0022
Mm.28921	M200006230	CLAUDIN-3 (CLOSTRIDIUM PERFRINGENS ENTEROTOXIN RECEPTOR 2) (CPE- RECEPTOR)	-1.7968	-1.9864
Mm.148155	M200009549	malic enzyme, supernatant	1.2541	-1.9659
Mm.272321	M200002801	CBP/P300-INTERACTING TRANSACTIVATOR 2 (MSG-RELATED PROTEIN 1) (MRG1 PRO	1.0853	-1.9657
Mm.10211	M200002896	ECTONUCLEOSIDE TRIPHOSPHATE DIPHOSPHOHYDROLASE 5 PRECURSOR (EC 3.6.1.6	-1.1636	-1.9638
Mm.3484	M200001354	NIEMANN-PICK C1 PROTEIN PRECURSOR.	-1.1434	-1.9486
Mm.35444	M200007747	SOLUTE CARRIER FAMILY 19 (THIAMINE TRANSPORTER), MEMBER 2.	-1.1201	-1.9409
Mm.4210	M200001638	aldehyde dehydrogenase family 3, subfamily A2	-1.2798	-1.9293
Mm.34208	M200007515	1300018L09Rik: RIKEN cDNA 1300018L09 gene	-1.2437	-1.9200
Mm.205266	M200013066	Acaa1: Acetyl-Coenzyme A acyltransferase 1	1.0295	-1.8918
Mm.20801	M200003937	HIV-1 TAT INTERACTIVE PROTEIN 2, HOMOLOG; TAT-INTERACTING PROTEIN 30 KDA	-1.1663	-1.8854
Mm.181709	M200012017	REGULATOR OF G-PROTEIN SIGNALING 16 (RGS16) (RETINALLY ABUNDANT REGULAT	-1.3177	-1.8793
Mm.9075	M200002766	EPOXIDE HYDROLASE 1 (EC 3.3.2.3) (MICROSOMAL EPOXIDE HYDROLASE) (EPOXIDE	1.1531	-1.8748
Mm.171314	M200012640	Rgmc: RGM domain family, member C	-1.6484	-1.8733
Mm.232636	M200015717	9130022K13Rik: RIKEN cDNA 9130022K13 gene	-1.8434	-1.8717
Mm.28193	M200005876	1810031K17Rik: RIKEN cDNA 1810031K17 gene	-1.6513	-1.8583
Mm.290534	M200006562	BC003251: CDNA sequence BC003251	-1.4969	-1.8388
Mm.214958	M200013337	STEROL REGULATORY ELEMENT BINDING PROTEIN-1 (SREBP-1)	-2.4606	-1.8366
Mm.1025	M200016208	NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 (NF-E2 RELATED FACTOR 2)	-1.3242	-1.8255
Mm.26539	M200005289	Cyp4f15: cytochrome P450, family 4, subfamily f, polypeptide 15	-1.7962	-1.7976
Mm.206218	M200013084	HISTONE DEACETYLASE 11 (HD11).	-1.3892	-1.7771
Mm.200905	M200012967	CARBOHYDRATE KINASE-LIKE PROTEIN (EC 2.7.1.-).	-1.3910	-1.7340
Mm.104960	M200008685	PROBABLE OXIDOREDUCTASE 0610038K03RIK.	-1.2219	-1.6957
Mm.46011	M200014363	RIKEN cDNA 2900063A19 gene	-1.4554	-1.6904
Mm.310	M200000111	ring finger protein 103	-1.2153	-1.6758
Mm.36560	M200007868	SIMILAR TO PROTOCADHERIN 1 (CADHERIN-LIKE 1) (FRAGMENT).	-1.9604	-1.6743
Mm.270278	M200003750	THYROTROPH EMBRYONIC FACTOR ISOFORM 1.	-1.6381	-1.6675
Mm.299	M200000107	THIOETHER S-METHYLTRANSFERASE (EC 2.1.1.96) (TEM1).	-1.4358	-1.6613

Mm.2662	M200001016	GLUTATHIONE S-TRANSFERASE 5.7 (EC 2.5.1.18) (GST 5.7) (GST CLASS- ALPHA) (GST A	1.0029	-1.6570
Mm.36757	M200007889	RIKEN cDNA 2900026A02 gene	-1.6968	-1.6565
Mm.45565	M200014283	RIKEN cDNA 1810038L18 gene	-1.3044	-1.6525
Mm.42260	M200013953	HEPATOCTE NUCLEAR FACTOR 3-GAMMA (HNF-3G) (FORKHEAD BOX PROTEIN A3)	-1.4353	-1.6476
Mm.41389	M200013573	KRUEPPEL-LIKE FACTOR 15 (CARDIOVASCULAR KRUPPEL-LIKE FACTOR).	-1.4373	-1.6316
Mm.183034	M200012128	SERINE/THREONINE KINASE 38; EXPRESSED SEQUENCE AA617404; 9530097A09RIK.	-1.2840	-1.6200
Mm.63490	M200015111	LIVER CARBOXYLESTERASE 22 PRECURSOR (EC 3.1.1.1) (EGASYN) (ESTERASE- 22) (E	1.2701	-1.6163
Mm.426	M200000159	GLUTATHIONE S-TRANSFERASE P 2 (EC 2.5.1.18) (GST YF-YF) (GST-PIB) (GST CLASS-P	-1.0908	-1.6105
Mm.194888	M200014752	ectonucleotide pyrophosphatase	-1.2612	-1.6061
Mm.73222	M200015358	1700061J05Rik: RIKEN cDNA 1700061J05 gene	-1.1655	-1.6034
Mm.181973	M200012047	Acbd5: acyl-Coenzyme A binding domain containing 5	-1.1376	-1.5997
Mm.2874	M200001093	<b>CORTICOSTEROID-BINDING GLOBULIN PRECURSOR (CBG) (TRANCORTIN).</b> [Sou	-1.0022	-1.5753
Mm.22288	M200004346	cyclin D1	1.1247	-1.5531
Mm.34004	M200007462	ATP-BINDING CASSETTE, SUB-FAMILY G, MEMBER 5 (STEROLIN-1).	-1.6667	-1.5383
Mm.33729	M200007403	Slc25a22: solute carrier family 25 (mitochondrial carrier: glutamate), member 22	-1.0468	-1.5310
Mm.24750	M200004986	VOLTAGE-DEPENDENT CALCIUM CHANNEL GAMMA-LIKE SUBUNIT	-1.5086	-1.5247
Mm.54981	M200014785	2810459M11Rik: RIKEN cDNA 2810459M11 gene	-1.4136	-1.5142
Mm.247530	M200012930	LIM AND SH3 DOMAIN PROTEIN 1 (LASP-1) (MLN 50).	-1.5038	-1.5103
Mm.21202	M200004084	2400009B11Rik: RIKEN cDNA 2400009B11 gene	-1.3651	-1.4937
Mm.170461	M200011659	Arhgef18: rho/rac guanine nucleotide exchange factor (GEF) 18	-1.3105	-1.4628
Mm.153372	M200009671	BRCA1 ASSOCIATED PROTEIN; RIKEN CDNA 3010002G07 GENE.	-1.4542	-1.4599
Mm.13000	M200003223	HISTIDINE AMMONIA-LYASE (EC 4.3.1.3) (HISTIDASE).	-1.3544	-1.4590
Mm.10288	M200002913	POTENTIAL PHOSPHOLIPID-TRANSPORTING ATPASE IIA (EC 3.6.3.1).	-1.1505	-1.4519
Mm.29460	M200006493	ADENYLATE KINASE ISOENZYME 2, MITOCHONDRIAL (EC 2.7.4.3)	-1.1763	-1.4127
Mm.170023	M200011657	cDNA sequence BC014685	-1.6408	-1.3673
Mm.259191	M200013110	O-LINKED N-ACETYLGLUCOSAMINE (GLCNAC) TRANSFERASE	-1.6935	-1.3667
Mm.3308	M200001279	tyrosine 3-monooxygenase	1.2494	-1.2502
Mm.24551	M200004927	Lims2: LIM and senescent cell antigen like domains 2	-2.0205	-1.2371
Mm.29382	M200006461	1110038D17Rik: RIKEN cDNA 1110038D17 gene	-1.5242	-1.2254
Mm.246377	M200012274	tubulin, beta 2	-1.5273	-1.2206
Mm.178246	M200011854	Chd3: chromodomain helicase DNA binding protein 3	-1.5007	-1.0571
Mm.28326	M200005943	D8Ert354e: DNA segment, Chr 8, ERATO Doi 354, expressed	-1.4549	(-).1.03209580991303

#### Induced genes by GH

Mm.9653	M200002810	<b>GROWTH ARREST AND DNA-DAMAGE-INDUCIBLE PROTEIN GADD45 GAMMA</b>	9.7522	17.3770
Mm.31403	M200016283	TNFA-INDUCED ADIPOSE-RELATED PROTEIN.	9.6152	14.9302
Mm.46067	M200013505	4933433D23Rik: RIKEN cDNA 4933433D23 gene	7.1301	9.4209
Mm.56	M200000018	CALCIPRESSIN 1 (DOWN SYNDROME CRITICAL REGION PROTEIN 1 HOMOLOG)	5.6820	7.4921
Mm.22718	M200004492	X-BOX BINDING PROTEIN 1; DNA SEGMENT, CHR 11, ERATO DOI 39, EXPRESSED.	4.8991	6.2682
Mm.8534	M200002716	<b>EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR (EC 2.7.1.112).</b>	2.9951	6.2115
Mm.4919	M200002032	DNA segment, human D4S114	6.8766	5.9712
Mm.24769	M200004993	INTERFERON GAMMA INDUCIBLE PROTEIN; INTERFERON GAMMA INDUCIBLE PROT	3.7211	5.8274
Mm.15793	M200003398	T-CELL SPECIFIC GTPASE.	-1.2378	4.7545
Mm.147226	M200009417	METALLOTHIONEIN-II (MT-II).	3.9213	4.6535
Mm.200941	M200012976	SERUM AMYLOID A-2 PROTEIN PRECURSOR	6.1305	4.6378
Mm.67721	M200015229	SALVADOR HOMOLOG 1; WW DOMAIN-CONTAINING PROTEIN 3;	4.1053	4.5787
Mm.216438	M200009965	Mus musculus, clone IMAGE:5123675, mRNA	3.1285	4.4913
Mm.116687	M200008807	Z-DNA BINDING PROTEIN 1 (TUMOR STROMA AND ACTIVATED MACROPHAGE PROT	-1.5702	4.3889
Mm.87072	M200015801	SIMILAR TO COMPLEMENT COMPONENT 8, BETA POLYPEPTIDE (FRAGMENT).	1.9334	4.1675
Mm.200220	M200012865	RIKEN cDNA A230106A15 gene	3.9045	4.1027
Mm.140811	M200009318	3 BETA-HYDROXYSTEROID DEHYDROGENASE/DELTA 5-->4-ISOMERASE TYPE I (3BET	2.4506	4.0476
Mm.30018	M200006785	SERINE/THREONINE-PROTEIN KINASE PIM-3 (EC 2.7.1.37).	2.4189	3.9310
Mm.10303	M200002919	NUCLEOLAR PROTEIN 5; SIK SIMILAR PROTEIN.	3.9533	3.9241
Mm.858	M200000303	INTERFERON-G INDUCED GTPASE.	1.1019	3.7874
Mm.246478	M200012140	RIKEN cDNA 2310043N10 gene	1.4412	3.7722
Mm.21679	M200004189	MITOGEN-INDUCIBLE GENE 6 PROTEIN HOMOLOG (MIG-6).	1.7265	3.6803
Mm.15622	M200003386	BETA-1,4-GALACTOSYLTRANSFERASE 1 (EC 2.4.1.-) (BETA-1,4-GALTASE 1)	2.9746	3.5630
Mm.3117	M200001196	PLECKSTRIN HOMOLOGY-LIKE DOMAIN, FAMILY A, MEMBER 1;	3.5306	3.4256

Mm.153625	M200006060	LIPIN 1 (FATTY LIVER DYSTROPHY PROTEIN).	2.8322	3.4019
Mm.22716	M200004491	Slc43a1: solute carrier family 43, member 1	2.1895	3.3410
Mm.143689	M200009437	LONG-CHAIN-FATTY-ACID--COA LIGASE 4 (EC 6.2.1.3)	1.9304	3.2912
Mm.22522	M200004414	METHYL-CPG BINDING DOMAIN PROTEIN 1.	2.8524	3.1753
Mm.259026	M200007079	2700078E11Rik: RIKEN cDNA 2700078E11 gene	1.5177	3.1717
Mm.182442	M200016386	KIDNEY EXPRESSED GENE 1.	6.1176	3.1629
Mm.41800	M200013755	NUCLEOLAR GTP-BINDING PROTEIN 1 (CHRONIC RENAL FAILURE GENE PROTEIN)	2.3388	3.1042
Mm.258484	M200005650	PROTEIN FAM3C PRECURSOR.	1.5023	3.0445
Mm.22650	M200004460	<b>Serine (or cysteine) proteinase inhibitor, clade A, member 3N (Spi 2.2)</b>	1.7122	2.9721
Mm.176946	M200011815	LEUCINE-RICH ALPHA-2-GLYCOPROTEIN;	1.1655	2.9636
Mm.29938	M200006739	INTERFERON INDUCIBLE PROTEIN 1.	1.3761	2.8778
Mm.202727	M200006184	PRE-B-CELL COLONY-ENHANCING FACTOR.	2.2279	2.8211
Mm.253736	M200009829	PALMDELPHIN; PARALEMMIN-RELATED.	1.7818	2.7556
Mm.196290	M200012614	5830411E10Rik: RIKEN cDNA 5830411E10 gene	2.6942	2.7072
Mm.280254	M200002915	Abhd5: abhydrolase domain containing 5	2.6991	2.7056
Mm.78861	M200015507	NUCLEOLAR AND COILED-BODY PHOSPHOPROTEIN 1;	2.1536	2.6428
Mm.28340	M200005953	fibrinogen-like protein 1	-1.4784	2.6120
Mm.34871	M200000601	DNA-BINDING PROTEIN INHIBITOR ID-2.	1.5651	2.5295
Mm.2668	M200001019	PROTEIN-TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 1 (EC 3.1.3.48)	1.7775	2.5074
Mm.896	M200000319	INTERLEUKIN-1 RECEPTOR, TYPE 1 PRECURSOR (IL-1R-1) (P80)	2.1471	2.4438
Mm.52526	M200004955	2810439F02Rik: RIKEN cDNA 2810439F02 gene	1.7213	2.4404
Mm.181959	M200012044	EARLY GROWTH RESPONSE PROTEIN 1 (EGR-1) (KROX-24 PROTEIN) (ZIF268)	2.4585	2.4352
Mm.12723	M200003116	ADP-RIBOSYLATION FACTOR-LIKE PROTEIN 4.	1.5429	2.3509
Mm.175612	M200011793	CYCLIN ANIA-6A; RIKEN CDNA 2610030E23 GENE.	2.0218	2.3217
Mm.24873	M200005022	nucleolar protein family A, member 1 (H	1.6057	2.2692
Mm.4481	M200001766	INTERLEUKIN-17 RECEPTOR PRECURSOR (IL-17 RECEPTOR).	2.1786	2.2083
Mm.3468	M200001348	<b>SUPPRESSOR OF CYTOKINE SIGNALING 3 (SOCS-3)</b>	1.7172	2.1996
Mm.30063	M200006814	<b>FIBRINOGEN B-BETA-CHAIN (FRAGMENT).</b>	1.5423	2.1783
Mm.16422	M200003433	<b>Fgg: Fibrinogen, gamma polypeptide</b>	1.5282	2.1719
Mm.21119	M200004061	LPS-INDUCED TN FACTOR; TBX1 PROTEIN; NEDD4 WW DOMAIN-BINDING PROTEIN 3	1.4448	2.1632
Mm.268521	M200001048	<b>INSULIN-LIKE GROWTH FACTOR IA PRECURSOR (IGF-IA) (SOMATOMEDIN).</b>	1.1226	2.1603
Mm.1167	M200000423	TRANSCRIPTION FACTOR JUN-B.	1.9849	2.1563
Mm.149870	M200004427	1200010C09Rik: RIKEN cDNA 1200010C09 gene	1.1452	2.1348
Mm.103986	M200006683	0610008N23Rik: RIKEN cDNA 0610008N23 gene	1.7249	2.1126
Mm.143141	M200009430	EUKARYOTIC TRANSLATION INITIATION FACTOR 1A (EIF-1A) (EIF-4C).	1.5044	2.1081
Mm.28373	M200005970	BAG-FAMILY MOLECULAR CHAPERONE REGULATOR-3 (BCL-2 BINDING ATHANOGEL	1.7497	2.0957
NM_007539	M200014921	B1 BRADYKININ RECEPTOR (BK-1 RECEPTOR) (B1R).	1.2377	2.0869
Mm.22030	M200004274	Hoxa1 regulated gene	1.5477	2.0588
Mm.278808	M200005914	AA408582: expressed sequence AA408582	1.8272	2.0540
Mm.8362	M200002704	nicotinamide N-methyltransferase	1.2091	2.0301
Mm.276229	M200009428	Fbxo30: F-box protein 30	1.7317	2.0287
Mm.213003	M200013247	MYELOID DIFFERENTIATION PRIMARY RESPONSE PROTEIN MYD88.	2.0109	2.0161
Mm.39053	M200008156	ADAPTOR-RELATED PROTEIN COMPLEX 2, BETA 1 SUBUNIT; RIKEN CDNA 130001200	1.2617	2.0034
Mm.3819	M200011686	Cox7a2: cytochrome c oxidase, subunit VIIa 2	1.6865	1.9956
Mm.180157	M200011929	28 KDA INTERFERON RESPONSIVE PROTEIN.	1.3857	1.9927
Mm.117068	M200008867	CLAUDIN-2.	1.3822	1.9919
Mm.131130	M200002987	CASPASE-8 PRECURSOR (EC 3.4.22.-).	1.8390	1.9824
Mm.3489	M200001359	SERUM AMYLOID A-4 PROTEIN PRECURSOR (AMYLOID A-5 PROTEIN).	1.3692	1.9791
Mm.28858	M200006199	Cklfs6: chemokine-like factor super family 6	1.4770	1.9591
Mm.45558	M200014281	INTERFERON-INDUCED 35 KDA PROTEIN HOMOLOG (IFP 35).	1.3685	1.9232
Mm.29352	M200006444	UBIQUITIN-CONJUGATING ENZYME E2 G2 (EC 6.3.2.19)	1.4982	1.9206
Mm.212696	M200013230	PROTEOGLYCAN 4 (MEGAKARYOCYTE STIMULATING FACTOR, ARTICULAR SUPERF	1.1130	1.9066
Mm.277299	M200012725	RIKEN cDNA 1200016E24 gene	3.0478	1.8988
Mm.6824	M200002436	N-SULFOTRANSFERASE; AMINE N-SULFOTRANSFERASE; TYROSINE-ESTER SULFOTR	1.5756	1.8769
Mm.12193	M200003073	SIMILAR TO 60S RIBOSOMAL PROTEIN L30 ISOLOG.	1.3112	1.8700
Mm.21549	M200004156	ALPHA CRYSTALLIN C CHAIN (SMALL STRESS PROTEIN-LIKE PROTEIN HSP22).	1.0857	1.8531
Mm.171346	M200011700	RIKEN cDNA A430105J06 gene	1.7035	1.8518
Mm.28908	M200006222	A DISINTEGRIN AND METALLOPROTEASE DOMAIN 9 (MELTRIN GAMMA); MELTRIN C	1.7109	1.8053

Mm.11223	M200003031	XANTHINE DEHYDROGENASE/OXIDASE	1.5974	1.8036
Mm.196153	M200012561	cAMP-regulated guanine nucleotide exchange factor II	2.0600	1.7944
Mm.275948	M200004211	INTERFERON ALPHA RESPONSIVE;	1.4258	1.7908
Mm.261182	M200012113	2310061B02Rik: RIKEN cDNA 2310061B02 gene	1.3155	1.7756
Mm.231400	M200007891	1500003O22Rik: RIKEN cDNA 1500003O22 gene	1.4918	1.7736
Mm.33484	M200007373	EGL NINE HOMOLOG 3 (C. ELEGANS);	2.1064	1.7645
Mm.35071	M200007704	RIKEN cDNA C730036D15 gene	1.0158	1.7596
Mm.27454	M200005561	PHOSPHORIBOSYL PYROPHOSPHATE SYNTHETASE 1.	1.2969	1.7546
Mm.182114	M200012059	ADP-RIBOSYLATION FACTOR-LIKE PROTEIN 1. ]	1.4263	1.7506
Mm.246803	M200009768	SWI/SNF RELATED, MATRIX ASSOCIATED, ACTIN DEPENDENT REGULATOR OF CHRC	1.8876	1.7394
Mm.158852	M200010506	MITOCHONDRIAL IMPORT INNER MEMBRANE TRANSLOCASE SUBUNIT TIM9 A.	1.6043	1.7384
Mm.288742	M200006794	Rg9mtd1: RNA (guanine-9-) methyltransferase domain containing 1	1.5597	1.7357
Mm.21935	M200004256	SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 2.	1.0800	1.7297
Mm.273986	M200007845	D4Bwg0951e: DNA segment, Chr 4, Brigham & Women's Genetics 0951 expressed	1.5247	1.7276
Mm.882	M200000314	INTERLEUKIN-1 RECEPTOR ANTAGONIST PROTEIN PRECURSOR (IL-1RA) (IL-1RN) (IR.	1.9404	1.7209
Mm.3815	M200001461	SYNDECAN-4 PRECURSOR (RYUDOCAN CORE PROTEIN).	1.3283	1.7144
Mm.10508	M200002937	LUPUS LA PROTEIN HOMOLOG (LA RIBONUCLEOPROTEIN)	1.1675	1.7081
Mm.4863	M200002002	CCAAT	1.6139	1.7017
Mm.4517	M200001789	INTER-ALPHA-TRYPSIN INHIBITOR HEAVY CHAIN H3 PRECURSOR (ITI HEAVY CHAIN	-1.6092	1.6998
Mm.24839	M200005013	enigma homolog (R. norvegicus)	1.3779	1.6861
Mm.482	M200000177	TRANSCRIPTION FACTOR AP-1 (ACTIVATOR PROTEIN 1) (AP1) (PROTO-ONCOGENE C-	1.7368	1.6773
Mm.249131	M200004036	6-PHOSPHOFRUCTO-2-KINASE/FRUCTOSE-2,6-BIPHOSPHATASE 1 (6PF-2-K/FRU- 2,6-P2.	1.3304	1.6700
Mm.87658	M200015892	FORMIN BINDING PROTEIN 3; FORMIN BINDING PROTEIN 11.	1.0601	1.6621
Mm.18571	M200003641	BUTYRATE RESPONSE FACTOR 1 (TIS11B PROTEIN).	1.6484	1.6550
Mm.21671	M200004188	Similar to eukaryotic translation initiation factor 3, subunit 9 (LOC381684), mRNA	1.2915	1.6461
Mm.12848	M200003148	signal recognition particle 54	1.5292	1.6419
Mm.14064	M200003261	METHIONINE ADENOSYLTRANSFERASE 1, ALPHA; S-ADENOSYLMETHIONINE SYNTH	1.0898	1.6338
Mm.71015	M200015304	SIMILAR TO FOR PROTEIN DISULFIDE ISOMERASE-RELATED.	1.3654	1.6206
Mm.196325	M200012632	A730098D12Rik: RIKEN cDNA A730098D12 gene	1.2891	1.6144
Mm.29778	M200006651	ARMET PROTEIN PRECURSOR.	1.1248	1.5986
Mm.247287	M200012282	TRANSMEMBRANE 4 SUPERFAMILY, MEMBER 7.	1.2967	1.5985
Mm.258508	M200011988	0610007L01Rik: RIKEN cDNA 0610007L01 gene	1.4531	1.5891
Mm.257762	M200009274	2610318G08Rik: RIKEN cDNA 2610318G08 gene	1.6497	1.5848
Mm.291757	M200007993	0610009I22Rik: RIKEN cDNA 0610009I22 gene	1.5470	1.5750
Mm.117055	M200008866	CGI-100-LIKE PROTEIN; RIKEN CDNA 3110020018.	1.5876	1.5737
Mm.263124	M200002687	LYMPHOCYTE ANTIGEN LY-6A.2/LY-6E.1 PRECURSOR (T-CELL-ACTIVATING PROTEIN	-1.2752	1.5514
Mm.36769	M200007892	SARCOLEMMMA ASSOCIATED PROTEIN; SARCOLEMMAL-ASSOCIATED PROTEIN.	1.6276	1.5369
Mm.88188	M200015922	DEAD-BOX PROTEIN 3 (DEAD-BOX RNA HELICASE DEAD3) (MDEAD3)	1.3259	1.5319
Mm.20866	M200003969	NIBRIN.	1.4625	1.5302
Mm.139166	M200015259	AF155546: cDNA sequence AF155546	-1.0288	1.5206
Mm.173953	M200014723	SMC6 PROTEIN.	1.3719	1.5206
Mm.19039	M200003723	glutamate oxaloacetate transaminase 1, soluble	1.1972	1.5170
Mm.30866	M200007014	cDNA sequence BC003965	1.1226	1.5160
Mm.259282	M200001932	LEPTIN RECEPTOR PRECURSOR (LEP-R) (OB RECEPTOR) (OB-R) (B219).	1.1460	1.5119
Mm.21062	M200004042	C87860: expressed sequence C87860	1.7009	1.5038
Mm.38233	M200008031	Similar to PTK9 protein tyrosine kinase 9 (LOC233637), mRNA	1.0789	1.5005
Mm.268334	M200006528	ATP-BINDING CASSETTE PROTEIN (FRAGMENT). [	1.2315	1.4948
Mm.12950	M200003204	GANGLIOSIDE-INDUCED DIFFERENTIATION-ASSOCIATED-PROTEIN 10.	1.3737	1.4946
Mm.29924	M200006732	ARL-6 INTERACTING PROTEIN-1 (AIP-1) (TBX2 PROTEIN).	1.5489	1.4864
Mm.1856	M200000717	MACROPHAGE RECEPTOR MARCO (MACROPHAGE RECEPTOR WITH COLLAGENOUS	-1.2510	1.4711
Mm.30043	M200006800	MICROSOMAL SIGNAL PEPTIDASE 25 KDA SUBUNIT (EC 3.4.-.-) (SPASE 25 KDA SUBUN	1.0188	1.4662
Mm.369	M200000130	ATP-BINDING CASSETTE, SUB-FAMILY A, MEMBER 1 (ATP-BINDING CASSETTE TRAN	1.6453	1.4652
Mm.28767	M200006157	C-REACTIVE PROTEIN PRECURSOR.	1.4008	1.4642
Mm.24611	M200004946	VITAMIN K-DEPENDENT PROTEIN S PRECURSOR.	-1.0462	1.4158
Mm.4094	M200001590	cytochrome P450, family 3, subfamily a, polypeptide 13	-1.1341	1.3945
Mm.2672	M200001020	ALPHA-1,3-MANNOSYL-GLYCOPROTEIN 2-BETA-N-ACETYLGLUCOSAMINYLTRANSFI	1.4562	1.3944
Mm.998	M200000364	presenilin 1	-1.0449	1.3837
Mm.27308	M200012686	ADP-RIBOSYLATION FACTOR 6.	1.3403	1.2749

Mm.142843	M200009424	5031400M07Rik: RIKEN cDNA 5031400M07 gene	1.4612	1.2274
Mm.22505	M200004406	PUTATIVE STEROID DEHYDROGENASE KIK-I (EC 1.1.1.-).	1.5047	1.2008
Mm.993	M200000362	DEAH (Asp-Glu-Ala-His) box polypeptide 15	1.5628	1.0836
Mm.22508	M200004408	METAXIN 1.	-1.2798	1.0042

## Supplementary Table 1

Change in gene expression in hepatic tissue between *SOCS2*<sup>+/+</sup> *Ghrhr*<sup>lit/lit</sup> and *SOCS2*<sup>-/-</sup> *Ghrhr*<sup>lit/lit</sup> mice in response to GH. Microarray and statistical analysis were performed as described in Materials and Methods. The data represent the average of four individual hybridisations per group and are shown as fold-time induction or reduction by the GH treatment. Genes shown in bold are previously recognised GH-regulated genes. The sign (-) indicates down regulation.