

Supplementary Table 1

Supplementary table 1. Cycling genes in the MBH of the Japanese quail. Red characters indicates the circadian clock genes.

Affymetrix ID	Gene Symbol	Accession	Description	RefSeq	UniGene	Phase	P-value	FDR
Gga.1014.1.S1_at	PER2	CD732610	circadian clock protein		gga.1014	0.38	0	0
Gga.4107.1.S1_at	CRY1	NM_204245	cryptochrome 1 (photolyase-like)	NM_204245	gga.4107	6.57	1.28E-07	9.68E-04
GgaAffx.20805.1.S1_s_at	DLG5	CR523810	discs, large homolog 5 (Drosophila)	XM_421604	gga.20315	7.08	1.54E-05	2.47E-02
Gga.956.1.S1_at	NFIL3(E4BP4)	NM_204618	nuclear factor, interleukin 3 regulated	NM_204618	gga.956	7.14	2.23E-06	7.17E-03
Gga.17109.1.S1_at		CR388823	Finished cDNA, clone ChEST690b10		gga.17109	7.19	2.05E-07	1.03E-03
Gga.5710.1.S1_a_at	HTRA3	BX934040	HtrA serine peptidase 3	XM_420813	gga.5710	7.19	6.44E-05	4.86E-02
Gga.5520.1.S1_at		BX936168	Finished cDNA, clone ChEST146b12		gga.5520	7.44	8.19E-05	5.42E-02
GgaAffx.21135.1.S1_s_at	FGD3	CR523480	FYVE, RhoGEF and PH domain containing 3	XM_414331	gga.7018	7.51	1.12E-04	5.81E-02
Gga.15288.1.S1_at		CR385166	Finished cDNA, clone ChEST543o8		gga.15288	7.53	6.20E-05	4.86E-02
Gga.16071.1.S1_s_at	SGPL1	BU446083	sphingosine-1-phosphate lyase 1	NM_00100794	gga.16071	7.62	3.07E-05	3.32E-02
GgaAffx.3894.1.S1_s_at	LOC422242	ENSGALT00000010111	similar to Mtap7 protein	XM_420230		7.79	2.04E-05	2.81E-02
Gga.8797.1.S1_at		CD764248	Finished cDNA, clone ChEST189k11		gga.8797	7.83	5.60E-05	4.50E-02
GgaAffx.21243.1.S1_s_at	PHLPP; PLEKHE1	CR523372	PH domain and leucine rich repeat protein phosphatase	XM_418990	gga.20702	7.96	1.74E-04	7.78E-02
GgaAffx.10071.1.S1_at	CGA	ENSGALT00000025514	LOC421829	XM_429886		7.97	2.39E-05	3.07E-02
GgaAffx.21354.1.S1_at	LOC416774	CR523261	similar to Yippee-like protein 1 (DiGeorge syndrome-related protein FKSG3)	XM_415068		8.07	8.85E-05	5.50E-02
Gga.15971.1.S1_at		BU353686	Finished cDNA, clone ChEST136j22		gga.15971	8.08	1.07E-04	5.77E-02
Gga.7044.3.S1_s_at	SEPP1	BU244903	selenoprotein P, plasma, 1	NM_00103160	gga.7044	8.23	3.06E-06	8.42E-03
Gga.7016.1.S1_at	PAPSS1	BU138060	3'-phosphoadenosine 5'-phosphosulfate synthase 1	XM_420493	gga.10727	8.31	2.21E-04	8.43E-02
Gga.1329.1.S1_at	ARNTL; BMAL1	AF246957	aryl hydrocarbon receptor nuclear translocator-like	NM_00100146	gga.1329	8.52	1.51E-07	9.68E-04
Gga.16254.1.S1_at		CR386060	Finished cDNA, clone ChEST237h3		gga.16254	8.64	2.11E-04	8.39E-02
GgaAffx.22378.1.S1_s_at	LOC425395	ENSGALT00000012718	similar to 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma 2 (Phosphoinositide phospholipase C) (PLC-gamma-2) (Phospholipase C-gamma-2) (PLC-IV)	XM_423160		8.73	9.61E-05	5.70E-02
Gga.3477.1.S1_at	FGFR2; BEK; cek3	NM_205319	fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, Crouzon syndrome, Pfeiffer syndrome, Jackson-Weiss syndrome)	NM_205319	gga.3477	8.82	9.90E-08	9.54E-04
GgaAffx.12938.9.S1_at	TARDBP	AJ719699	TAR DNA binding protein	NM_00103087	gga.16753	8.84	7.37E-05	5.17E-02
GgaAffx.22381.3.S1_at	NCAM1	ENSGALT00000012725	neural cell adhesion molecule 1	XM_425812		8.84	3.53E-05	3.58E-02
Gga.6073.1.S1_at		BU415550	Finished cDNA, clone ChEST152d3		gga.6073	9.02	1.43E-05	2.47E-02
GgaAffx.2851.1.S1_at	LOC424441	ENSGALT00000007329	similar to heme binding protein 2; putative heme-binding protein	XM_422283		9.10	2.32E-04	8.67E-02
Gga.3242.1.S1_at	LOC419338	AL587491	similar to novel amplified in breast cancer-1	XM_417504		9.35	1.38E-04	6.81E-02
Gga.2875.1.S1_at	ACVR1	NM_204560	activin A receptor, type I	NM_204560	gga.2875	9.40	1.06E-04	5.77E-02
Gga.1609.1.S1_at	APOH	BX932102	apolipoprotein H (beta-2-glycoprotein I)	XM_415683	gga.1609	9.64	9.77E-05	5.70E-02
GgaAffx.7899.1.S1_at	LOC424308	ENSGALT00000020351	similar to KIAA1461 protein	XM_422153		9.65	9.08E-05	5.56E-02
Gga.1999.1.S1_a_at	CRYAB	U26661	crystallin, alpha B	NM_205176	gga.1999	9.67	9.37E-05	5.64E-02
Gga.16213.1.S1_at		CR387761	Finished cDNA, clone ChEST532c9		gga.16213	9.72	2.36E-04	8.76E-02
GgaAffx.25359.2.A1_at		ENSGALT00000003108				9.72	2.55E-04	9.10E-02
GgaAffx.25365.1.S1_at	COMT	ENSGALT00000003148	catechol-O-methyltransferase	XM_415077	gga.7199	9.83	2.97E-04	9.95E-02
GgaAffx.20301.1.S1_at		CR524314	Finished cDNA, clone ChEST819a3		gga.20550	9.85	1.86E-05	2.65E-02
Gga.17320.1.S1_at		CR388514	Finished cDNA, clone ChEST101810		gga.17320	9.93	8.31E-05	5.42E-02

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Gga.4058.1.S1_at	LOC396473	NM_205480	myristoylated alanine-rich C kinase substrate (MARCKS)	NM_205480	gga.4058	10.14	1.97E-04	8.34E-02
GgaAffx.8704.1.S1_at		ENSGALT00000022222				10.18	6.51E-06	1.39E-02
Gga.1026.2.S1_a_at	LOC427675	BU104660	similar to Rps15a protein	XM_425249		10.52	1.45E-04	6.95E-02
GgaAffx.20516.1.S1_s_at		CR524099	Finished cDNA, clone ChEST262g11		gga.13061	10.69	2.78E-05	3.32E-02
Gga.5178.1.S1_at	LOC424570	BU485658	similar to receptor protein tyrosine phosphatase LAR	XM_422409		10.95	4.35E-05	3.81E-02
GgaAffx.2789.1.S1_at	LOC416371	ENSGALT00000007194	similar to betaine homocysteine methyl transferase	XM_414685		11.14	8.91E-07	3.43E-03
GgaAffx.12959.1.S1_at	IPO13	AJ720856	importin 13	NM_001006653	gga.22612	11.24	3.95E-05	3.80E-02
GgaAffx.12308.1.S1_s_at	PKP4	AJ720205	plakophilin 4	NM_001006652	gga.5277	11.38	3.09E-05	3.32E-02
GgaAffx.4781.1.S1_at	LOC425380	ENSGALT00000012398	similar to protein kinase C-theta	XM_423148		11.90	8.44E-05	5.42E-02
GgaAffx.24104.1.S1_at	LOC418178	ENSGALT00000021384	similar to glutathione S-transferase	XM_416409		12.12	1.62E-04	7.61E-02
GgaAffx.3833.5.S1_at	SCN5A; LOC430306	ENSGALT00000009919	oltage-gated sodium channel type V alpha	XM_418535 ; XM_427864	gga.564	12.43	2.66E-04	9.25E-02
Gga.2154.1.S1_at		BU379404	Finished cDNA, clone ChEST794n20		gga.2154	13.05	3.78E-05	3.73E-02
Gga.1527.1.S1_at	LOC426871	BX931252	similar to DKFZP586A0522 protein	XM_424479	gga.1527	14.33	4.75E-06	1.22E-02
Gga.1308.2.S1_at	KIF20A	CR388986	Kinesin family member 20A	NM_00101278	gga.1308	18.38	2.14E-04	8.39E-02
Gga.4315.1.S2_at	NR1D2; REV-ERBB	BU434806	nuclear receptor subfamily 1, group D, member 2	NM_205205	gga.4315	19.47	2.14E-07	1.03E-03
Gga.15700.1.S1_at	bHLHB2(DEC1)	BU144794	Finished cDNA, clone ChEST258o16		gga.15700	19.65	5.91E-06	1.37E-02
Gga.10816.1.S1_at		BX932362	Finished cDNA, clone ChEST355i12		gga.10816	20.04	1.70E-04	7.78E-02
Gga.10636.1.S1_at		BX932098	Finished cDNA, clone ChEST38a21		gga.10636	20.07	2.17E-04	8.39E-02
GgaAffx.6473.1.A1_at		ENSGALT00000016696				20.31	1.07E-04	5.77E-02
Gga.14127.1.S1_at		BU118866	Finished cDNA, clone ChEST140e9		gga.14127	20.39	4.68E-05	4.01E-02
Gga.9491.1.S1_at	LOC417217	BU228626	similar to Dynamin-1	XM_415501		20.62	7.56E-06	1.53E-02
Gga.1229.1.S1_at	bHLHB3(DEC2)	BU244306	Finished cDNA, clone ChEST132b22		gga.1229	20.64	1.37E-06	4.80E-03
GgaAffx.21040.1.S1_s_at		CR523575	Finished cDNA, clone ChEST537j12		gga.9927	20.73	1.21E-04	6.21E-02
GgaAffx.22193.1.S1_s_at	CADPS	ENSGALT00000011770	Ca2+-dependent secretion activator	XM_414412	gga.16126	20.83	4.17E-05	3.80E-02
Gga.8026.1.S1_at		BX275469	Transcribed locus		gga.8026	20.91	2.91E-04	9.83E-02
Gga.11.1.S1_at	HCRT	NM_204185	hypocretin (orexin) neuropeptide precursor	NM_204185	gga.11	21.00	2.66E-04	9.20E-02
Gga.10186.1.S1_at	IGSF4D	BX950409	immunoglobulin superfamily, member 4D	XM_416672	gga.10186	21.05	6.81E-05	4.86E-02
Gga.203.1.S1_at	SNCB	NM_204671	synuclein, beta	NM_204671	gga.203	21.11	3.11E-05	3.32E-02
Gga.10505.1.S1_at		BU477621	Finished cDNA, clone ChEST53b5		gga.10505	21.17	2.40E-04	8.79E-02
GgaAffx.11545.1.S1_s_at	MDH1	AJ719442	malate dehydrogenase 1, NAD (soluble)	NM_001006639	gga.1141	21.20	1.84E-04	8.05E-02
Gga.2726.1.S1_at	SNCA	NM_204673	synuclein, alpha (non A4 component of amyloid)	NM_204673	gga.2726	21.21	9.91E-05	5.70E-02
Gga.4730.1.S1_at		CR387467	Finished cDNA, clone ChEST490o21		gga.4730	21.21	1.06E-05	2.05E-02
Gga.17835.1.S1_at		BU312867	Finished cDNA, clone ChEST198e11		gga.17835	21.30	2.49E-04	8.96E-02
GgaAffx.349.4.S1_s_at	PER3	ENSGALT00000000799	circadian clock protein	XM_417527		21.54	1.52E-05	2.47E-02
Gga.1673.1.A1_at		AL588323	Finished cDNA, clone ChEST883o18		gga.1673	22.07	2.48E-04	8.96E-02
Gga.5353.1.S1_at		BU354163	Transcribed locus, weakly similar to XP_425603.1 PREDICTED: similar to ORF2 [Gallus gallus]		gga.5353	22.20	2.16E-04	8.39E-02
Gga.5129.1.S1_at	ALC	NM_204440	ALC protein	NM_204440	gga.5129	22.38	1.75E-04	7.78E-02
Gga.14806.1.S1_at		BX273662	Finished cDNA, clone ChEST39h14		gga.14806	22.50	1.82E-05	2.65E-02
Gga.4148.1.S1_at	TPI1	NM_205451	triosephosphate isomerase 1	NM_205451	gga.4148	22.81	2.73E-04	9.38E-02
GgaAffx.9414.1.S1_at	LOC421058	ENSGALT00000023921	similar to elastin microfibril interfacier 2; extracellular glycoprotein EMILIN-2 precursor	XM_419145		23.18	6.31E-05	4.86E-02
GgaAffx.12473.1.S1_s_at	ZA20D2	AJ720370	zinc finger, A20 domain containing 2	NM_00103142	gga.11716	23.29	1.78E-05	2.65E-02

Supplementary Table 2. Photoperiodically induced genes during the photoinduction process in the MBH of the Japanese quail.

Red characters and blue characters indicate 1st wave and 2nd wave genes, respectively.

Affymetrix ID	Gene Symbol	Accession	Description	RefSeq	UniGene
Gga.551.1.S1_at	TSHB; TSH-B	NM_205063	thyroid stimulating hormone, beta	NM_205063	gga.551
GgaAffx.508.1.S1_at	EYA3	ENSGALT00000001127	Eya3 protein	XM_417715	gga.1018
Gga.1819.1.S1_at	DIO2	NM_204114	deiodinase, iodothyronine, type II	NM_204114	gga.1819
Gga.6220.1.S1_a_at	ICER	NM_204387	ICER protein	NM_204387	gga.6220
Gga.4285.1.S1_at	CEBPB; NF-M	NM_205253	CCAAT/enhancer binding protein (C/EBP), beta	NM_205253	gga.4285
Gga.13328.1.S1_at	NR4A3	BU436288	nuclear receptor subfamily 4 group A member 3	XM_419081	gga.33742
Gga.915.1.S1_at	SOCS3	NM_204600	suppressor of cytokine signaling 3	NM_204600	gga.915
GgaAffx.12426.1.S1_s_at	PLSCR1	AJ720323	phospholipid scramblase 1	XM_422696	gga.7604
Gga.9972.1.S1_at	RASD1	BX930456	RAS, dexamethasone-induced 1	XM_414811	gga.9972
GgaAffx.3568.1.S1_at	LOC415818	ENSGALT00000009128	similar to hypothetical protein DKFZp434B044	XM_414180	
Gga.2461.1.S1_at		BU264985	Transcribed locus		gga.2461
Gga.10787.1.S1_at	LOC421368	BX932508	similar to Jun dimerization protein p21SNFT	XM_419428	gga.10787
Gga.552.1.S1_at	DIO3	Y11273	deiodinase, iodothyronine, type III	XM_426465	gga.552

Supplementary Table 3

Supplementary Table 3. Differentially expressed genes between short and long day conditions. Black and blue characters indicate long day-up-regulated genes and -down-regulated genes, respectively.

Affymetrix ID	P-value	Gene Symbol	Accession	Description	RefSeq	UniGene
Gga.17403.1.S1_at	1.50E-07		BU140017	Finished cDNA, clone ChEST724o21		gga.17403
Gga.552.1.S1_at	1.63E-07	DIO3	Y11273	deiodinase, iodothyronine, type III	XM_426465	gga.552
Gga.5644.1.S1_s_at	7.69E-07	DNAJA1	BX271179	DnaJ (Hsp40) homolog, subfamily A, member 1	NM_001012945	gga.5644
Gga.2461.1.S1_at	9.58E-07		BU264985	Transcribed locus		gga.2461
Gga.1819.1.S1_at	1.03E-06	DIO2	NM_204114	deiodinase, iodothyronine, type II	NM_204114	gga.1819
Gga.551.1.S1_at	2.69E-06	TSHB; TSH-B	NM_205063	thyroid stimulating hormone, beta	NM_205063	gga.551
Gga.488.1.S1_at	2.76E-06	ASCL1	NM_204412	achaete-scute complex-like 1 (Drosophila)	NM_204412	gga.488
GgaAffx.21834.1.S1_s_at	4.22E-06	CCK	NM_001001741	cholecystokinin	NM_001001741	gga.2441
Gga.9368.1.S1_at	1.45E-05		BU281873			
Gga.3035.1.S1_at	1.84E-05	EPAS1	NM_204807	endothelial PAS domain protein 1	NM_204807	gga.3035
Gga.19300.1.S1_at	1.84E-05		BM426102	Finished cDNA, clone ChEST556c20		gga.19300
GgaAffx.9485.1.S1_at	2.81E-05	LOC421068	ENSGALT00000024095	similar to lung alpha/beta hydrolase fold protein 3	XM_419156	
GgaAffx.10071.1.S1_at	4.65E-05	LOC421829(CGA)	ENSGALT00000025514	LOC421829	XM_429886	
Gga.7364.1.S1_a_at	4.65E-05		BX931037	Finished cDNA, clone ChEST446b11		gga.7364
GgaAffx.24962.1.S1_s_at	4.77E-05	LOC421944	ENSGALT00000026546	similar to GREB1 protein isoform a; gene regulated by estrogen in breast cancer protein	XM_419956	
Gga.6271.1.S1_at	5.11E-05	POMC	BX540524	proopiomelanocortin (adrenocorticotropin/ beta-lipotropin/ alpha-melanocyte stimulating hormone/ beta-melanocyte stimulating hormone/ beta-endorphin)	NM_001031098	gga.6271
GgaAffx.11648.1.S1_at	5.63E-05	BCL6	AJ719545	B-cell CLL/lymphoma 6 (zinc finger protein 51)	NM_001012930	gga.4457
Gga.12627.1.S1_at	0.000184		BU461086			
GgaAffx.23246.2.S1_s_at	0.000184	LOC428743	ENSGALT00000017135	similar to alanine-glyoxylate aminotransferase 2-like 1	XM_426301	
GgaAffx.3940.1.S1_at	0.000184	LOC425295	ENSGALT00000010212	similar to Chloride channel protein 2 (ClC-2)	XM_423073	
GgaAffx.22637.1.S1_s_at	0.000184	FKBP5; FKBP51; PPIase	ENSGALT00000001399	FK506 binding protein 5	NM_001005431	gga.4750
Gga.4318.1.S1_at	0.00025	FABP7	NM_205308	fatty acid binding protein 7, brain	NM_205308	gga.4318
Gga.12454.1.S1_at	0.000628	LOC427223; RLN3	BU435007	similar to relaxin 3 preproprotein; insulin-like 7	XM_424810	
Gga.3807.1.S2_s_at	0.000706	ALDH1A3; ALDH6	NM_204669	aldehyde dehydrogenase 1 family, member A3	NM_204669	gga.3807
GgaAffx.24555.1.S1_s_at	0.000778		ENSGALT00000024134	Finished cDNA, clone ChEST284i20		gga.4865
GgaAffx.20969.1.S1_at	0.000954		CR523646	Finished cDNA, clone ChEST322a24		gga.20399
Gga.12773.1.S1_at	0.00107	LOC416717	BX950498	similar to chromosome 20 open reading frame 39	XM_415014	gga.12773
Gga.3138.1.S1_a_at	0.00108	LOC395858	NM_205007	histone macroH2A1.2	NM_205007	gga.3138
Gga.16384.1.S1_at	0.00109		BU236248	Finished cDNA, clone ChEST229g1		gga.16384
GgaAffx.26692.1.S1_at	0.00144	LOC417678	ENSGALT00000009642	similar to solute carrier family 13 (sodium-dependent citrate transporter), member 5; sodium-coupled citrate transporter	XM_415923	
GgaAffx.21816.1.S1_s_at	0.00201	CYP19A1	NM_001001761	cytochrome P450, family 19, subfamily A, polypeptide 1	NM_001001761	gga.859
Gga.9233.1.S1_at	0.00203	GHR	BU231940	Growth hormone receptor precursor		gga.9233
GgaAffx.23689.1.S1_at	0.00203	LOC423515	ENSGALT00000019348	LOC423515	XM_430062	
Gga.18427.1.S1_at	0.00246	LOC424098	BU213226	hypothetical gene supported by CR390562	XM_430126	gga.18427
Gga.12774.1.S1_at	0.00252		BX950493	Finished cDNA, clone ChEST523o19		gga.12774
GgaAffx.7118.1.S1_s_at	0.00252	LOC420638	ENSGALT00000018264	similar to 2-hydroxyphytanoyl-CoA lyase (2-HPCL)	XM_418737	
GgaAffx.26220.2.S1_s_at	0.00264	LOC415945	ENSGALT00000007128	similar to semaphorin sem2	XM_414289	
Gga.6022.1.S1_s_at	0.00278	PHKG1	BU106819	phosphorylase kinase, gamma 1 (muscle)	NM_001006217	gga.6022

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Gga.17706.1.S1_at	0.00331		CR388473	Finished cDNA, clone ChEST591g11		gga.17706
Gga.7143.2.S1_a_at	0.00354	LOC424614	BU386059	similar to fatty acid amide hydrolase	XM_422450	
Gga.18324.1.S1_s_at	0.00386		BU391693	Finished cDNA, clone ChEST228a16		gga.18324
GgaAffx.23445.1.S1_s_at	0.0041	LOC422591	ENSGALT00000018050	similar to protein tyrosine phosphatase, non-receptor type 13 isoform 2; protein tyrosine phosphatase, nonreceptor type 13; protein-tyrosine phosphatase PTPL1; protein tyrosine phosphatase 1E; Fas-associated phosphatase-1	XM_420550	
GgaAffx.2984.1.S1_s_at	0.00414	LOC422181	ENSGALT00000007661	similar to Phosphorylase B kinase alpha regulatory chain, skeletal muscle isoform (Phosphorylase kinase alpha M	XM_420177	
Gga.4285.1.S1_at	0.00414	CEBPB; NF-M	NM_205253	CCAAT/enhancer binding protein (C/EBP), beta	NM_205253	gga.4285
Gga.6052.3.S1_a_at	0.00431	LOC422598	BU300073	similar to acyl-CoA-desaturase	XM_420557	
Gga.14762.1.S1_at	0.00455		BU202866	Finished cDNA, clone ChEST103n10		gga.14762
GgaAffx.21240.1.S1_at	0.00466		CR523375	Finished cDNA, clone ChEST853e7		gga.16698
Gga.2608.1.S1_at	0.00548	DCX; 18C15.5	NM_205204	doublecortex; lissencephaly, X-linked (doublecortin)	NM_204335	gga.2608
GgaAffx.7332.1.S1_at	0.00558	LOC423488	ENSGALT00000018877	similar to hypothetical protein	XM_421393	
Gga.14263.1.S1_at	0.00558		CR352731	Finished cDNA, clone ChEST39a12		gga.14263
Gga.4003.1.S1_at	0.00593	LOC423209	BU143709	similar to hypothetical protein MGC4504	XM_421133	gga.4003
Gga.16760.1.S1_at	0.006	LOC416710	BU326734	similar to RNA polymerase I polypeptide B; DNA-directed RNA polymerase I 135kDa polypeptide; RNA polymerase I	XM_415007	
Gga.19895.1.S1_at	0.006		CR407144	Finished cDNA, clone ChEST749n19		gga.19895
Gga.11081.1.S1_s_at	0.006	LOC427493	CF255496	similar to RANTES factor of late activated T lymphocytes-1	XM_425065	
Gga.9734.1.S1_at	0.006		BU416270	Finished cDNA, clone ChEST612i15		gga.9734
GgaAffx.8162.1.S1_at	0.00613	MC4R	ENSGALT00000021044	melanocortin 4 receptor	NM_001031514	gga.32096
Gga.11300.1.S1_at	0.0063	LOC422439	BU348384	similar to E74-like factor 2 (ets domain transcription factor) isoform 2; new Ets-related factor	XM_420406	
GgaAffx.1176.1.S1_at	0.00696	LOC427031	ENSGALT00000002758	similar to HECT domain containing 2	XM_424632	
Gga.13008.1.S1_at	0.00732		CR353534	Finished cDNA, clone ChEST11k17		gga.13008
Gga.16449.1.S1_at	0.00734		BU455377	Finished cDNA, clone ChEST1038b12		gga.16449
GgaAffx.2068.1.S1_at	0.00795	LOC415705	ENSGALT00000005243	similar to neuronal calcium binding protein 2	XM_414072	
Gga.2606.1.S1_at	0.00808		BU320234	Finished cDNA, clone ChEST380k16		gga.2606
Gga.5461.1.S1_at	0.00865		BU118178	Finished cDNA, clone ChEST938n22		gga.5461
Gga.5353.1.S1_at	0.00926		BU354163	Transcribed locus, weakly similar to XP_425603.1 PREDICTED: similar to ORF2 [Gallus gallus]		gga.5353
Gga.11231.1.S1_at	0.01	LOC419178	BX929984	similar to growth hormone-releasing hormone/pituitary adenylate cyclase-activating polypeptide precursor	XM_417357	gga.11231
GgaAffx.21413.1.S1_s_at	0.0108		CR523202	Finished cDNA, clone ChEST629c13		gga.17584
GgaAffx.9726.1.S1_at	0.0113	LOC428533, OPRL1	ENSGALT00000024646	similar to opioid receptor, kappa 1; Opiate receptor, kappa-1	XM_426087	
Gga.2283.1.S2_at	0.0125	DLL1	BU227707	delta-like 1 (Drosophila)	NM_204973	gga.2283
Gga.15955.1.S1_s_at	0.0126		BU131661	Finished cDNA, clone ChEST147b19		gga.1750
Gga.6220.2.S1_a_at	0.0127	ICER	BX931695	ICER protein	NM_204387	gga.6220
Gga.11996.1.S1_at	0.0127	RASD2	BX933905	RASD family, member 2	XM_416293	gga.11996
GgaAffx.24735.1.S1_at	0.0133	LOC420181	ENSGALT00000025208	LOC420181	XM_429743	

Supplementary Table 3

Affymetrix ID	P-value	Gene Symbol	Accession	Description	RefSeq	UniGene
GgaAffx.751.1.S1_s_at	0.0145	LOC428179	ENSGALT0000001684	similar to membrane metallo-endopeptidase-like 2; zinc metallopeptidase	XM_425737	
GgaAffx.8173.1.S1_at	0.0145	LOC418129	ENSGALT00000021057	similar to synaptotagmin 10	XM_416361	
Gga.4888.1.S1_s_at	0.0146	PTP4A1	BU124448	protein tyrosine phosphatase type IVA, member 1	NM_001008461	gga.4888
GgaAffx.6911.1.A1_at	0.0146		ENSGALT00000017767			
Gga.4038.1.S1_at	0.0151		BU202624	Transcribed locus		gga.4038
Gga.15280.1.S1_s_at	0.0155		CN223021	Finished cDNA, clone ChEST491d14		gga.14583
GgaAffx.22776.2.S1_s_at	0.0155	P20K; EXFABP; EX-FABP	ENSGALT00000014676	quiescence-specific protein	NM_205422	gga.739
Gga.4120.1.S1_at	0.0155	DUSP1	CR387287	dual specificity phosphatase 1	XM_422941	gga.4120
Gga.7088.1.S1_at	0.0165		BX259751	Finished cDNA, clone ChEST695o3		gga.7088
GgaAffx.26392.1.S1_at	0.0165	LOC417627	ENSGALT00000008115	similar to protein phosphatase 1E; partner of PIX 1	XM_415871	
Gga.7283.1.S1_at	0.0165		BU452897	Finished cDNA, clone ChEST462c20		gga.7283
Gga.8506.1.S2_s_at	0.017	TRIB2; TRB2	BU410444	tribbles homolog 2 (Drosophila)	NM_204401	gga.8506
GgaAffx.4097.1.S1_at	0.0176	LOC418644	ENSGALT00000010624	similar to Metabotropic glutamate receptor 3 precursor	XM_416842	
Gga.571.1.S1_at	0.0176	NR5A1; SF-1; Ad4BP	NM_205077	nuclear receptor subfamily 5, group A, member 1	NM_205077	gga.571
Gga.17278.1.S1_at	0.018	ANKRD43	BU294824	ankyrin repeat domain 43	XM_414649	gga.17278
Gga.16331.1.S1_at	0.018		BU339029	Finished cDNA, clone ChEST209I4		gga.16331
GgaAffx.21237.1.S1_at	0.018		CR523378	Finished cDNA, clone ChEST576k23		gga.20704
GgaAffx.7307.1.S1_at	0.0185	LOC424227	ENSGALT00000018803	similar to 25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial precursor (Calcidiol 1-monooxygenase) (25-OHD-1 alpha-hydroxylase) (25-hydroxyvitamin D(3) 1-alpha-hydroxylase) (VD3 1A hydroxylase) (P450C1 alpha)	XM_422077	gga.10648
Gga.10041.1.S1_a_at	0.0188	PNOG	BU392271	prepronociceptin	XM_420026	gga.10041
GgaAffx.5888.1.S1_at	0.0188	LOC423252	ENSGALT00000015206	similar to zinc finger, FYVE domain containing 1 isoform 1; tandem FYVE fingers-1 protein; zinc finger protein, subfamily 2A, member 1; double FYVE-containing protein 1; phosphoinositide-binding protein SR3; zinc finger protein.	XM_421172	
GgaAffx.2936.1.S1_at	0.0188	LOC415774	ENSGALT00000007532	similar to system asc amino acid transporter Asc-1	XM_414136	
GgaAffx.22126.1.S1_at	0.019	LOC419762	ENSGALT00000011374	similar to immunoglobulin superfamily, member 4A isoform a; immunosuperfamily protein BI2	XM_417901	gga.5291
GgaAffx.10913.1.S1_at	0.019	LOC428074	ENSGALT00000027529	similar to stomatin-like 3; erythrocyte band 7 integral membrane protein; protein 7.2B	XM_425632	
Gga.2396.1.S1_at	0.0195	BTG1	NM_205350	B-cell translocation gene 1, anti-proliferative	NM_205350	gga.2396
GgaAffx.21945.1.S1_at	0.0195	LOC416316	ENSGALT00000010386	similar to ubiquitin conjugating enzyme	XM_414633	
Gga.8797.1.S1_at	0.0195		CD764248	Finished cDNA, clone ChEST189k11		gga.8797
GgaAffx.6689.1.S1_at	0.0197	LOC423390	ENSGALT00000017215	similar to RIKEN cDNA 4933401N24	XM_421302	
GgaAffx.22642.1.S1_at	0.0197	SLC39A12	ENSGALT00000014008	solute carrier family 39 (zinc transporter), member 12	XM_418616	gga.13510
Gga.6972.2.S1_at	0.0207		BM426736	Transcribed locus, strongly similar to XP_418110.1 PREDICTED: similar to ABL gene family, member 3 [Gallus		gga.6972
Gga.4737.1.S1_at	0.0207	LOC415296	BU119431	actin, cytoplasmic, type 5	NM_001007824	gga.4520
Gga.5058.1.S1_s_at	0.0207	CST3	NM_205500	cystatin C (amyloid angiopathy and cerebral hemorrhage)	NM_205500	gga.5058
Gga.13363.1.S1_at	0.0212	LOC421483	CR353569	C21orf19-like protein	XM_419531	gga.13363
Gga.12437.2.S1_at	0.0214	LOC423420	BU118220	similar to chromogranin A precursor - mouse	XM_421330	

Supplementary Table 3

Affymetrix ID	P-value	Gene Symbol	Accession	Description	RefSeq	UniGene
Gga.11323.1.S1_at	0.0214	CRH	AJ621492	corticotropin releasing hormone	XM_418279	gga.11323
GgaAffx.20609.1.S1_s_at	0.0214		CR524006	Finished cDNA, clone ChEST701p4		gga.9871
Gga.9122.1.S1_at	0.0216		CF253290	Transcribed locus		gga.9122
GgaAffx.4102.1.S1_at	0.0227		ENSGALT00000010639			
GgaAffx.10053.1.S1_at	0.0227	LOC421816	ENSGALT00000025446	similar to ACY1L2 protein	XM_419840	
Gga.13507.1.S1_at	0.0227		CR385142	Finished cDNA, clone ChEST406g11		gga.13507
GgaAffx.20301.1.S1_at	0.0227		CR524314	Finished cDNA, clone ChEST819a3		gga.20550
Gga.1980.1.S1_s_at	0.0232	THBS4	BU388187	thrombospondin 4	XM_424763	gga.1980
Gga.11835.1.S1_at	0.0246	LOC419492	BU118597	similar to AGPA3119	XM_417647	gga.11835
GgaAffx.4634.4.S1_at	0.0247	LOC416083	ENSGALT00000012023	similar to MAGI1c alpha beta2 gamma	XM_414418	
GgaAffx.25755.1.S1_s_at	0.0254	LOC416815	ENSGALT00000004933	similar to silencing mediator of retinoic acid and thyroid hormone receptor extended isoform	XM_415107	
Gga.1840.1.S2_at	0.0257	NEUROD1; NEUROD	BU199562	neurogenic differentiation 1	NM_204920	gga.1840
Gga.12904.1.S1_at	0.0258	LOC416438	BX950566	similar to Neuronal pentraxin II precursor (NP-II) (NP2)	XM_414750	gga.12904
Gga.8081.1.S1_at	0.0264	FSTL4	NM_204502	folliculin-like 4	NM_204502	gga.8081
GgaAffx.4468.2.S1_s_at	0.0274	LOC416068	ENSGALT00000011554	similar to Acyl-coenzyme A oxidase 2, peroxisomal (Branched-chain acyl-CoA oxidase) (BRCAox) (Trihydroxycoprostanoyl-CoA oxidase) (THCCox) (THCA-	XM_414406	
Gga.7020.1.S1_at	0.0274		BU349489	Finished cDNA, clone ChEST299j12		gga.7020
GgaAffx.21710.1.S1_s_at	0.0276	IFRD1; IFR1	CR522905	interferon-related developmental regulator 1	NM_001001468	gga.2458
Gga.2200.1.S1_at	0.0276	CYR61	J04496	cysteine-rich, angiogenic inducer, 61	NM_001031563	gga.2200
GgaAffx.3409.1.S1_at	0.0282	LOC428401	ENSGALT00000008721	similar to hypothetical protein LOC259173 isoform 1	XM_425962	
Gga.15700.1.S1_at	0.0285		BU144794	Finished cDNA, clone ChEST258o16		gga.15700
Gga.2353.1.S1_at	0.0285	TIPARP	BU123098	TCDD-inducible poly(ADP-ribose) polymerase	XM_422828	gga.2353
GgaAffx.3860.2.S1_s_at	0.0285	LOC428711	ENSGALT00000009987	similar to four and a half LIM domains 1 protein, isoform C	XM_426269	
GgaAffx.10313.1.S1_at	0.0285	LOC428381	ENSGALT00000026044	similar to G protein-coupled receptor 20; G protein-coupled receptor 5-1	XM_425941	
GgaAffx.3458.1.S1_s_at	0.0291	DPYD	ENSGALT00000008842	dihydropyrimidine dehydrogenase	XM_426639	gga.20542
Gga.3950.1.S1_at	0.0315	BMP2	NM_204358	bone morphogenetic protein 2	NM_204358	gga.3950
GgaAffx.6812.1.S1_at	0.032	LOC429108	ENSGALT00000017540	similar to thioesterase, adipose associated isoform BFIT2; brown fat inducible thioesterase; START domain containing 14; thioesterase superfamily member 1	XM_426664	
GgaAffx.25940.1.S1_at	0.0339	LOC423677	ENSGALT00000005844	similar to Bifunctional 3-phosphoadenosine 5-phosphosulfate synthetase 2 (PAPS synthetase 2) (PAPSS 2) (Sulfurylase kinase 2) (SK2) (SK 2)	XM_421557	
GgaAffx.24643.1.S1_at	0.0339	LOC421766	ENSGALT00000024672	similar to Sestrin 1 (p53-regulated protein PA26)	XM_419796	
Gga.1750.1.S1_at	0.0339		BU315258	Finished cDNA, clone ChEST147b19		gga.1750
GgaAffx.6904.1.S1_s_at	0.0339	LOC428753	ENSGALT00000017742	similar to protein kinase, cGMP-dependent, type II; cGKII	XM_426309	
Gga.7979.1.S1_at	0.034		BX270512	Transcribed locus, strongly similar to XP_418130.1 PREDICTED: similar to Vesicle amine transport protein 1 homolog (T californica) [Gallus gallus]		gga.7979
GgaAffx.11584.1.S1_s_at	0.034	LOC420846	AJ719481	similar to Hypothetical protein MGC75808	NM_001012863	gga.9773
Gga.6002.1.S1_a_at	0.034	DNMT3A	BU201511	DNA (cytosine-5)-methyltransferase 3A	NM_001024832	gga.6002

Supplementary Table 3

Affymetrix ID	P-value	Gene Symbol	Accession	Description	RefSeq	UniGene
GgaAffx.1849.2.S1_s_at	0.0345	LOC416208, STC2	ENSGALT00000004562	similar to stanniocalcin	XM_414534	
Gga.2166.1.S1_at	0.0345		BU376245	Finished cDNA, clone ChEST732g16		gga.2166
Gga.11766.2.S1_a_at	0.0345	NDP	BX935162	Norrie disease (pseudoglioma)	XM_416765	gga.11766
Gga.5095.1.S1_at	0.0345	CHRNA3	M37336	cholinergic receptor, nicotinic, alpha polypeptide 3	NM_204416	gga.5095
Gga.4922.1.S2_at	0.0348	EGR1	NM_204136	early growth response 1	NM_204136	gga.4922
Gga.19368.1.S1_at	0.0348		CR406662	Finished cDNA, clone ChEST290o16		gga.19368
GgaAffx.8374.1.S1_s_at	0.0359	LOC418190	ENSGALT00000021500	similar to organic anion transporting polypeptide 1a2 variant	XM_416421	
GgaAffx.12984.1.S1_s_at	0.036	SNX3	AJ720881	sorting nexin 3	NM_001006408	gga.15744
GgaAffx.21555.1.S1_s_at	0.0361	LOC420944	CR523060	similar to PSST739	XM_419028	gga.11980
Gga.10364.1.S1_at	0.0361	LOC422064	BX934281	similar to dJ402H5.2 (novel protein similar to worm and fly proteins)	XM_420069	gga.10364
GgaAffx.25620.1.S1_s_at	0.0361	AHCYL1	ENSGALT00000000438	S-adenosylhomocysteine hydrolase-like 1	NM_001030913	gga.5821
Gga.7640.2.S1_at	0.0365	NXT2	BU342317	Nuclear transport factor 2-like export factor 2	NM_001006436	gga.3568
GgaAffx.4941.1.S1_at	0.0369	LOC423158	ENSGALT00000012806	similar to ELGC699	XM_421084	
Gga.2105.1.S1_at	0.0376	M-RIP	BU435267	myosin phosphatase-Rho interacting protein	XM_414806	gga.20857
Gga.16273.1.S1_at	0.0376		BU141803	Finished cDNA, clone ChEST118g23		gga.16273
GgaAffx.5015.1.S1_at	0.0376	ITGA11	ENSGALT00000012998	integrin, alpha 11	XM_413930	
Gga.3676.1.S1_at	0.0378	LOC423952	AJ441642	N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase	XM_421811	gga.3676
Gga.12183.3.S1_s_at	0.0388	LOC428007	BX934631	similar to dehydrogenase/reductase (SDR family) X-linked; dehydrogenase/reductase (SDR family) X chromosome	XM_425577	
Gga.1014.1.S1_at	0.0394		CD732610	Clone C1 putative apoptosis associated protein mRNA, 3' UTR sequence		gga.1014
Gga.2827.2.S1_a_at	0.0394	TIMP3; IMP-3	CR386544	TIMP metalloproteinase inhibitor 3 (Sorsby fundus dystrophy, pseudoinflammatory)	NM_205487	gga.2827
Gga.12811.1.S1_at	0.0411	NUAK2; 1200013B22RIK	BX950299	NUAK family, SNF1-like kinase, 2	XM_417962	gga.12811
Gga.520.1.S1_at	0.0412	LOC396126	AF055478	activin beta B	NM_205206	gga.520
Gga.3640.1.S1_at	0.0412	LOC396335	NM_205376	kinectin	NM_205376	gga.3640
GgaAffx.21459.1.S1_s_at	0.0412		CR523156	Finished cDNA, clone ChEST1028m18		gga.18074
Gga.20018.1.S1_at	0.0412		BU290246	thrombomucin		gga.20018
Gga.3575.1.S1_at	0.0412	LOC422926	BX950350	similar to Gag-Pol polyprotein	XM_420865	gga.3575
GgaAffx.24012.1.S1_at	0.0412	LOC418109	ENSGALT00000020949	similar to Cystine/glutamate transporter (Amino acid transport system xc-) (xCT) (Calcium channel blocker resistance protein CCBR1)	XM_416343	
GgaAffx.5182.1.S1_at	0.0412	LOC431262	ENSGALT00000013361	similar to feminization 1 homolog a	XM_428816	
Gga.261.3.S1_a_at	0.0412	PRLR; PRL-R	AF051808	prolactin receptor	NM_204854	gga.261
Gga.19107.1.S1_at	0.0423		CR406474	Finished cDNA, clone ChEST959a8		gga.19107
GgaAffx.5983.1.S1_at	0.0423	LOC423936	ENSGALT00000015465	similar to arginine-tRNA-protein transferase 1-2p; ATE1-2p	XM_421796	
GgaAffx.26575.1.S1_at	0.0429		ENSGALT00000009181	SEC31-like 2 (S. cerevisiae)	XM_421637	gga.22925
GgaAffx.4754.1.S1_s_at	0.045	SLIT1	ENSGALT00000012327	slit homolog 1 (Drosophila)	XM_421715	gga.2156
Gga.17110.1.S1_at	0.0458		CR391266	Finished cDNA, clone ChEST701k15		gga.17110
GgaAffx.21308.1.S1_s_at	0.0461		CR523307	Finished cDNA, clone ChEST858c10		gga.5874
Gga.2182.1.S1_at	0.0461	IGF1R; IGF-1R	NM_205032	insulin-like growth factor 1 receptor	NM_205032	gga.2182
Gga.3624.1.S1_at	0.0468	PDE3B	BU247139	phosphodiesterase 3B, cGMP-inhibited	NM_001031182	gga.3624

Supplementary Table 3

Affymetrix ID	P-value	Gene Symbol	Accession	Description	RefSeq	UniGene
Gga.8052.1.S1_at	0.0469		BX275092	Transcribed locus		gga.8052
GgaAffx.7851.2.S1_s_at	0.0474	LOC423583	ENSGALT00000020239	similar to osteonidogen	XM_421471	
Gga.3986.2.S1_a_at	0.0476	CA2	CN217291	carbonic anhydrase II	NM_205317	gga.3986
Gga.12107.1.S1_s_at	0.0476	GDPD4	CD727469	glycerophosphodiester phosphodiesterase domain	XM_417276	gga.12107
Gga.2070.2.S1_a_at	0.0484	ID4	AY040529	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	NM_204282	gga.2070
Gga.13798.2.S1_s_at	0.0484	CRYBB2	AY539830	crystallin, beta B2	NM_205175	gga.646
Gga.16263.1.S1_at	0.0485		BU442145	Finished cDNA, clone ChEST532h13		gga.16263
Gga.25.1.S1_at	0.0494	SH3GL2; SH3P4	NM_204530	SH3-domain GRB2-like 2	NM_204530	gga.25

Supplementary Table 4. Probe sequences used in the *in situ* hybridization.

Gene symbol	Probe sequence (sense sequence)
<i>TSHB</i>	5'- GAGTGTGCCTACTGCCTGGCCATCAACACCACCATCTGCGCTGGA -3'
<i>EYA3</i>	5'- CGTTGGAGGCCTTCTCAGCCCACAGAAGAGGGAAGCTCTGCAGCG -3'
<i>DIO2</i>	5'- GATGGTTCAGCCTCAATGAATATCAAGACGGAATAACATTCTGTA -3'
<i>ICER</i>	5'- CTCAGCAACTGGCAGAAGAGGCAACGCGCAAGAGAGAGCTGCGAC -3'
<i>NR4A3</i>	5'- GCAGGAACCTTCGCAGCCCTCCCCGCCTTCTCCTCCCATCAGCAT -3'
<i>CEBPB</i>	5'- GAAGGTGGAGCAGCTCTCTCGGGAGCTGAGCACCCCTCAGGAAGTT -3'
<i>SOCS3</i>	5'- CGCATCCAGTGCAGAGGGCGGCAGCTTCTCTCTGCAGAGCGACCCG -3'
<i>DIO3</i>	5'- CCTACGGCGCCTACTTTCGAGCGGCTCTACGTCATCCAGGAGGAGA -3'
<i>CGA</i>	5'- TCTGGGCAAGACACCGAGTAGACTTGTGAATGAGATGGATGGCTG -3'
<i>FSTL4</i>	5'- GGCCACACTCAGACCTGGGGAGGCTGCACCAAGAGGTATCCGGAA -3'
<i>RLN3</i>	5'- ACGGGAGTCTCTGGGTTTGGCAGGAATGTGTTGCAAGTGGGGCTG -3'
<i>STC2</i>	5'- TTCTGAGCCCCGAGAAGAAGACGGGCGAAGCCAGCAAAGCTGCTG -3'
<i>PNOC</i>	5'- TTCGACCTCCTTGTCTGCATCCTGGAGTGCGAAGGCGAACCCTG -3'
<i>POMC</i>	5'- CGCTGTGCCACAGCCTGCCCGTGGTGCTGGGGCTGCTGCTGTGTC -3'
<i>GHR</i>	5'- CTCTCCACAAGGCCTTGTGCTCAATGCAACTGCACTGCCTGTGCC -3'
<i>OPRL1</i>	5'- CGCTGTGTCTGATGACCTTACCCTTCCAGGGTACAGACACGTTCC -3'
<i>MC4R</i>	5'- GCGAAGGGCCACTCCTCGGGAGGCTGCTATGAACAACCTTTTGTGTA -3'
<i>CCK</i>	5'- TACGGCGGCATCTGCATCTGCGTGCTCCTCGCTGCGCTGTCGGTG -3'
<i>CRH</i>	5'- AACTCTGCCCCGTCCTGCTCCGCATGGGAGAGGAGTACTTCCTGCG -3'
<i>PRLR</i>	5'- CAGACAGTGAAGTCAAGGACGAGGGAGCTGTGATAGCCCTTCTCTGC -3'
<i>EYA1</i>	5'- CCAGGGAGCGCTTACTTGAGGCAGCCCTGGGCTGTCGTGCAGTCT -3'
<i>EYA2</i>	5'- CACTGCCTACCCTCCTCCAGCGCAGCCCTACGGCATACTTCCTA -3'
<i>EYA4</i>	5'- GAGGGCGGAAGAATAATCCATCACCCCTCCGGACAGTGAAGTTGG -3'
<i>SIX1</i>	5'- GCCACCAACAACCCAACCAGCTCTCCCCCTGGACGGGAGCAAA -3'
<i>SIX2</i>	5'- GACAGTTCTGGGGAGCTCGGAGGACGAGAAGACGCCGTCAGGGAC -3'
<i>SIX3</i>	5'- CCCGACCACAGTGTTCAGTTTGACAGAAAGAGCCGAGACGGG -3'
<i>SIX6</i>	5'- CTCCAGCCCAGCCGTCAGCCTCTCCAGCAAGGCGGCCACTTCAGC -3'
<i>DACH1</i>	5'- GGGCCGAAGACCTGGCAGCCACCCATCCTCTCATCGAAGCAGCAG -3'
<i>DACH2</i>	5'- AGCCCTTCTCCAGCTCCATCCCTAGAAGACAGTCAGCGGCCTGGG -3'
<i>PAX6</i>	5'- GAGTCCTCCGCAACCTGGCTAGCGAAAAGCAACAGATGGGTGCCG -3'
<i>TSHR</i>	5'- TGTGCAGCCAGGGCACGGAAGGTGCCCGTCAGCCTTCTGCGAGT -3'
<i>TGFA</i>	5'- CGGTCACACTTCAATGAGTGCCCCGACTCCCACCGGCAGTTCTGC -3'

Supplementary Table 5. Primer sequences used in the Q-PCR.

Gene Symbol	Primer sequence
<i>TSHB</i>	sense: 5'-CGCCGGATTCTGCATGAC-3' antisense: 5'-GTGCACACGTTTTGGGACAG-3'
<i>DIO2</i>	sense: 5'-CCGAACTCCAGTGTAATCCACATAG-3', antisense: 5'-CACACTTGCCACCAACACTCTT-3'
<i>ICER</i>	sense: 5'-AACAGCTGCCACTGGAGACAT-3' antisense: 5'-CCATTACCACTCCCTGAGGTAAGT-3'
<i>EYA3</i>	sense: 5'-ATGAGACCATCATAATTTTCCATTCA-3' antisense: 5'-GAGCCAATCACCAGAGTTGGAT-3'
<i>DIO3</i>	sense: 5'-AGAAGGTGATGTACCAGGGC-3' antisense: 5'-TTACACTTGGATGACCACCG-3'
<i>CEBPB</i>	sense: 5'-GATCTCTTCGCCGAGGACTATAAA-3' antisense: 5'-CGGGTGAGGCTGATGTAGGT-3'
<i>CGA</i>	sense: 5'-TTTCTCCCGGGCCTATCC-3' antisense: 5'-GCTTCCGATGTAATGTTCTTTGG-3'
<i>PER2</i>	sense: 5'-GATTCCTGTACAGAGACACGAAA-3' antisense: 5'-CGGCGAAGCCTGGTCTT-3'
<i>CRY1</i>	sense: 5'-CTCATGGAGACAATCAGCAATCA-3' antisense: 5'-TTTCCCGGCGCTAATGC-3'
<i>E4BP4</i>	sense: 5'-AACGACGACTGAATGACCTTGTC-3' antisense: 5'-AGCAGCTCGGCCTTCAAA-3'
<i>BMAL1</i>	sense: 5'-ATGCAGCCTTCCCACAACCTC-3' antisense: 5'-TCCTTTTTGGGCCACCTTCT-3'
<i>NR1D2</i>	sense: 5'-CCATAGTTGCATTTGGGTGTGT-3' antisense: 5'-CATTTAGCGATGAAGCAACAAAA-3'
<i>DEC1</i>	sense: 5'-CCTGTTGCCCCAGCTGTT-3' antisense: 5'-AAACCAACCCAATGAAATAAACGT-3'
<i>DEC2</i>	sense: 5'-CGCTTCGGTGCATTGCT-3' antisense: 5'-GTAGGCCGCTAAGGTCTGGAA-3'
<i>PER3</i>	sense: 5'-AGCCATTGTGCCTCTAGTGAATTTAC-3' antisense: 5'-GCCAATCCACTGCCTGATG-3'
<i>GAPDH</i>	sense: 5'-AACCCCCAATGTCTCTGTTGTT-3' antisense: 5'-TCACTACCCTCTTGATGTCATCATATT-3'