

Supplementary Table 3C. Genes found to be upregulated in Hypothalamus by at least 50% in response to CGS21680 (N=70).

Probeset Name	Fold Difference	Gene Name	Genbank #
D00913_at	—	ICAM-1; Rattus sp. mRNA for intercellular adhesion molecule-1, complete cds.	D00913
D00913_g_at	—	ICAM-1; Rattus sp. mRNA for intercellular adhesion molecule-1, complete cds.	D00913
D10106_s_at	—	prepropeptide; Rat mRNA for platelet-derived growth factor A chain.	D10106
D13213_s_at	—	Glutamate receptor, ionotropic, NMDA2D	D13213
D25233cds_at	—	Retinoblastoma 1	D25233
M26744_at	--	Interleukin 6	M26744
M29866_s_at	--*	Complement component 3	M29866
M86389cds_s_at	--*	Heat shock 27kDa protein 1	M86389
rc_AA818604_s_at	--	LOC361797	AA818604
rc_AI071965_s_at	—	Rattus norvegicus cDNA clone UH-R-C2-nl-e-03-0-UI 3', mRNA sequence.	AI071965
S77528cds_s_at	--	NFIL-6; Rattus sp. C/EBP-related transcription factor (Nfil6) mRNA, complete cds.	S77528
U14647_g_at	—	Caspase 1	U14647
U17254_at	--	Immediate early gene transcription factor NGFI-B	U17254
U18650_at	—	Huntington disease gene homolog	U18650
X03347cds_g_at	—	polyprotein gag-fos-p75; FBR murine osteosarcoma, complete proviral sequence	X03347
X06769cds_at	--	unnamed protein product; c-fos protein (AA 1-380); Rat c-fos mRNA.	X06769
X17053cds_s_at	—	Rat immediate-early serum-responsive JE gene.	X17053
X17053mRNA_s_at	—	Rat immediate-early serum-responsive JE gene.	X17053
U42719_at	28.14	Complement component 4a	U42719
AF044910_at	9.85	Survival motor neuron	AF044910
X60769mRNA_at	9.81	CCAAT/enhancer binding protein (C/EBP), beta	X60769
AF053312_s_at	8.80	Small inducible cytokine subfamily A20	AF053312
X54686cds_at	8.35	R.norvegicus pJunB gene.	X54686
rc_AA998683_g_at	7.61*	Heat shock 27kDa protein 1	AA998683
U17254_g_at	5.98	Immediate early gene transcription factor NGFI-B	U17254
J05122_at	5.67	Benzodiazepin receptor	J05122
M17960_at	4.33	Insulin-like growth factor 2	M17960
rc_AI176658_s_at	4.29*	Heat shock 27kDa protein 1	AI176658
X52477_at	4.21*	Complement component 3	X52477
AF027954_at	3.91^	Bcl-2-related ovarian killer protein (bok)	AF027954
rc_AI176710_at	3.63	Nuclear receptor subfamily 4, group A, member 3	AI176710
M11794cds#2_f_at	3.42*	Rat metallothionein-2 and metallothionein-1 genes, complete cds.	M11794
AF028784cds#1_s_at	3.40	intermediate filament; glial fibrillary acidic proteins alpha and delta	AF028784
X91810_at	3.28	Signal transducer and activator of transcription 3	X91810
M63122_at	3.18	Tumor necrosis factor receptor superfamily, member 1 a	M63122
D42145_at	3.14	Potassium inwardly-rectifying channel, subfamily J, member 8	D42145
rc_AI102562_at	3.01*	Metallothionein	AI102562
U14647_at	3.01	Caspase 1	U14647
M34253_g_at	2.94	Interferon regulatory factor 1	M34253
rc_AI137246_s_at	2.89	Ig VH193020=anti-insulin 193020 monoclonal antibody heavy chain variable region	S65980
AJ001641_at	2.44	POU domain, class 3, transcription factor 3	AJ001641
rc_AI176456_at	2.44	Transcribed locus, highly similar to NP_032656.1 metallothionein 2	AI176456
X99267_at	2.27	Presenilin-2	X99267
AJ222813_s_at	2.16	Interleukin 18	AJ222813
M58587_at	2.05	Interleukin 6 receptor	M58587
X06769cds_g_at	2.04	unnamed protein product; c-fos protein (AA 1-380); Rat c-fos mRNA.	X06769
U49729_at	1.96	Bcl2-associated X protein	U49729
AF030091UTR#1_at	1.91	Cyclin L	AF030091
rc_AA945583_at	1.90	Hydroxysteroid (17-beta) dehydrogenase 10	AA945583
X62952_at	1.90	Vimentin	X62952
S48813_s_at	1.89	beta-ARK; beta-adrenergic receptor kinase [rats, brain, mRNA Partial, 2141 nt].	S48813
X07285cds_s_at	1.84	Rat mRNA for basic fibroblast growth factor.	X07285
L20821_at	1.82	Syntaxin 4	L20821
D13417_g_at	1.80	Hairy and enhancer of split 1 (Drosophila)	D13417
U31866_g_at	1.74	Transcribed locus, moderately similar to NP_598738.1 transferrin [Mus musculus]	U31866
U66274_at	1.73	Neuropeptide Y receptor Y5	U66274
rc_AI235747_at	1.69	Glutathione-S-transferase, alpha type2	AI235747
U48596_at	1.66	Mitogen activated protein kinase kinase kinase 1	U48596
M18416_at	1.66	Early growth response 1	M18416
Z75029_s_at	1.63	Heat shock 70kD protein 1A	Z75029
U77777_s_at	1.63	Interleukin 18	U77777
X86789_at	1.63	Synuclein, gamma	X86789
rc_AA964003_s_at	1.62	MHC class II RT1-D beta1 chain haplotype a	AA964003
AF020757_s_at	1.59	Purinergic receptor P2X, ligand-gated ion channel, 2	AF020757
M23697_at	1.58	Plasminogen activator, tissue	M23697
M54987_at	1.54	Rat corticotropin releasing hormone (CRH) gene, complete cds.	M54987
AF075382_at	1.53	Cytokine inducible SH2-containing protein 2	AF075382
rc_AI146018_s_at	1.52	Transcribed locus, highly similar to NP_004792.1 neurexin 1 [Homo sapiens]	AI146018
AF030091UTR#1_g_at	1.52	Cyclin L	AF030091
M91599mRNA_g_at	1.50	Rattus sp. fibroblast growth factor receptor subtype 4 (FGFR4) mRNA, complete cds.	M91599

Gene elements in bold font were also upregulated by PGD₂ in Hy.

"--" denotes gene elements absent in control chips and present in CGS21680 chips.

*Change confirmed as significant by Taqman analysis

^Change NOT found to be significant by Taqman analysis