

## SuppTable3A.xls

**Supplementary Table 3A.** Genes found to be upregulated in Basal Forebrain by at least 50% in response to CGS21680 (N=116).

Probeset Name	Fold Difference	Gene Name	Genbank #
AB010275_s_at	--	Leukemia inhibitory factor	AB010275
AF000368_at	--	Sodium channel, voltage-gated, type 9, alpha polypeptide	AF000368
AF003598_at	--	Integrin beta 7	AF003598
AF006619_s_at	--	Nitric oxide synthase 2, inducible	AF006619
<b>AF007583_at</b>	--	<b>Collagen-like tail subunit of asymmetric acetylcholinesterase</b>	<b>AF007583</b>
AF090113_at	--	Glutamate receptor interacting protein 2	AF090113
<b>D00913_at</b>	--	<b>ICAM-1; Rattus sp. mRNA for intercellular adhesion molecule-1, complete cds.</b>	<b>D00913</b>
<b>D44591_s_at</b>	--	<b>Nitric oxide synthase 2, inducible</b>	<b>D44591</b>
<b>D83661_s_at</b>	--	<b>Nitric oxide synthase 2, inducible</b>	<b>D83661</b>
<b>E01884cds_s_at</b>	--	<b>DNA sequence coding for rat IL-1-beta(interleukin-1 beta).</b>	<b>E01884</b>
L00981mRNA#2_at	--	Rattus norvegicus lymphotoxin (TNF-beta) gene; tumor necrosis factor (TNF-alpha) gene	L00981
L27060_at	--	Phosphodiesterase 4D	L27060
M17960_at	--	Insulin-like growth factor 2	M17960
<b>M26744_at</b>	--	<b>Interleukin 6</b>	<b>M26744</b>
M26745cds_s_at	--	interleukin 6 (IL6); Rat interleukin 6 (IL6) gene, complete cds.	M26745
<b>M31837_at</b>	--	<b>Insulin-like growth factor binding protein 3</b>	<b>M31837</b>
<b>M34253_at</b>	--	<b>Interferon regulatory factor 1</b>	<b>M34253</b>
M63101cds_at	--	Rat interleukin 1 receptor antagonist gene, complete cds.	M63101
M84203_s_at	--	Potassium voltage gated channel, Shaw-related subfamily, member 2	M84203
<b>M86389cds_s_at</b>	-*	<b>Heat shock 27kDa protein 1</b>	<b>M86389</b>
S66024_g_at	--	ICER; transcriptional repressor CREM [rats, pineal gland, mRNA, 436 nt].	S66024
S71597_s_at	--	Nitric oxide synthase 2, inducible	S71597
<b>S77528cds_s_at</b>	--	<b>NFIL-6; Rattus sp. C/EBP-related transcription factor (Nfil6) mRNA</b>	<b>S77528</b>
U13396_at	--	Janus kinase 2	U13396
U14533_at	--	Nuclear receptor subfamily 1, group H, member 2	U14533
<b>U22414_at</b>	--	<b>Chemokine (C-C motif) ligand 3</b>	<b>U22414</b>
<b>U45965_at</b>	--	<b>Chemokine (C-X-C motif) ligand 2</b>	<b>U45965</b>
<b>U48829_s_at</b>	--	<b>Nitric oxide synthase 2, inducible</b>	<b>U48829</b>
U53927_at	--	Solute carrier family 7, member 3	U53927
<b>X03347cds_g_at</b>	--	<b>polyprotein gag-fos-p75; FBR murine osteosarcoma, complete proviral sequence</b>	<b>X03347</b>
X06769cds_at	--	unnamed protein product; c-fos protein (AA 1-380); Rat c-fos mRNA.	X06769
<b>X69903_at</b>	--	<b>Interleukin 4 receptor</b>	<b>X69903</b>
Z11558_at	--	Glia maturation factor, beta	Z11558
<b>Z75029_s_at</b>	--	<b>Heat shock 70kD protein 1A</b>	<b>Z75029</b>
<b>M98820_g_at</b>	39.63	<b>Interleukin 1 beta</b>	<b>M98820</b>
<b>X17053mRNA_s_at</b>	18.72	<b>Rat immediate-early serum-responsive JE gene.</b>	<b>X17053</b>
<b>X60769mRNA_at</b>	16.71	<b>CCAAT/enhancer binding protein (C/EBP), beta</b>	<b>X60769</b>
rc_A1137246_s_at	14.38	Ig VH193020=anti-insulin 193020 monoclonal antibody heavy chain variable region	S65980
<b>X17053cds_s_at</b>	14.25	<b>Rat immediate-early serum-responsive JE gene.</b>	<b>X17053</b>
<b>J04563_at</b>	12.73	<b>putative; Rat cAMP phosphodiesterase mRNA, 3' end.</b>	<b>J04563</b>
<b>U03699complete_seq_at</b>	11.84	<b>Nitric oxide synthase 2, inducible</b>	<b>U03699</b>
<b>AF053312_s_at</b>	11.64	<b>Small inducible cytokine subfamily A20</b>	<b>AF053312</b>
<b>AF021935_at</b>	11.09	<b>Ser-Thr protein kinase related to the myotonic dystrophy protein kinase</b>	<b>AF021935</b>
<b>J02722cds_at</b>	10.78	<b>heme oxygenase; Rat heme oxygenase gene, complete cds.</b>	<b>J02722</b>
<b>M34253_g_at</b>	8.66	<b>Interferon regulatory factor 1</b>	<b>M34253</b>
<b>rc_AA998683_g_at</b>	7.37*	<b>Heat shock 27kDa protein 1</b>	<b>AA998683</b>
<b>J05122_at</b>	6.38	<b>Benzodiazepin receptor</b>	<b>J05122</b>
<b>U14647_at</b>	6.29	<b>Caspase 1</b>	<b>U14647</b>
<b>D00913_g_at</b>	5.80	<b>ICAM-1; Rattus sp. mRNA for intercellular adhesion molecule-1, complete cds.</b>	<b>D00913</b>
AJ012603UTR#1_g_at	5.80	A disintegrin and metalloproteinase domain 17	AJ012603
<b>X54686cds_at</b>	5.31	<b>R.norvegicus pJunB gene.</b>	<b>X54686</b>
<b>X91810_at</b>	4.71	<b>Signal transducer and activator of transcription 3</b>	<b>X91810</b>
<b>L16764_s_at</b>	4.40	<b>Heat shock 70kD protein 1A</b>	<b>L16764</b>
<b>L22558_at</b>	4.39*	<b>5-hydroxytryptamine (serotonin) receptor 7</b>	<b>L22558</b>
rc_A1179610_at	4.09	Heme oxygenase 1	A1179610
<b>AF030091UTR#1_at</b>	3.92	<b>Cyclin L</b>	<b>AF030091</b>
<b>L26267_at</b>	3.66	<b>Nuclear factor kappa B p105 subunit</b>	<b>L26267</b>
<b>M63122_at</b>	3.46	<b>Tumor necrosis factor receptor superfamily, member 1a</b>	<b>M63122</b>
<b>Y09507_at</b>	3.37	<b>Hypoxia inducible factor 1, alpha subunit</b>	<b>Y09507</b>

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U77777_s_at	3.33	Interleukin 18	U77777
AJ222813_s_at	3.30	Interleukin 18	AJ222813
M91590_at	3.25^	Arrestin, beta 2	M91590
U14647_g_at	3.23	Caspase 1	U14647
S79676_s_at	3.20	ICE; interleukin-1 beta-converting enzyme [rats, mRNA Partial, 458 nt].	S79676
U90610_at	3.17	Chemokine receptor (LCR1)	U90610
M29866_s_at	2.93*	Complement component 3	M29866
AF044910_g_at	2.90	Survival motor neuron	AF044910
M34384_at	2.80	Nestin	M34384
X06769cds_g_at	2.79	unnamed protein product; c-fos protein (AA 1-380); Rat c-fos mRNA.	X06769
M25157mRNA_i_at	2.79	Superoxide dismutase 1	M25157
U17254_g_at	2.75	Immediate early gene transcription factor NGFI-B	U17254
X06942_at	2.61	V-raf murine sarcoma 3611 viral oncogene homolog 1	X06942
rc_AI236828_s_at	2.56	Signal transducer and activator of transcription 3	AI236828
E13732cds_at	2.56	cDNA encoding rat CC chemokine receptor protein.	E13732
U23056_at	2.52	C-CAM4 protein	U23056
rc_AI176658_s_at	2.51*	Heat shock 27kDa protein 1	AI176658
D90258_s_at	2.43	multicatalytic proteinase complex, component 8; proteasome subunit C8, complete cds.	D90258
rc_AI102562_at	2.41*	Metallothionein	AI102562
AF028784cds#1_s_at	2.38	Rattus norvegicus glial fibrillary acidic proteins alpha and delta (GFAP) gene	AF028784
AF030091UTR#1_g_at	2.35	Cyclin L	AF030091
rc_AI176710_at	2.35	Nuclear receptor subfamily 4, group A, member 3	AI176710
AB011679_at	2.33	Tubulin, beta 5	AB011679
U47031_at	2.26	Purinergic receptor P2X, ligand-gated ion channel, 4	U47031
X52477_at	2.22*	Complement component 3	X52477
M25350_s_at	2.22	Phosphodiesterase 4B	M25350
rc_AA945583_at	2.12	Hydroxysteroid (17-beta) dehydrogenase 10	AA945583
U42719_at	2.12	Complement component 4a	U42719
U48596_at	2.08	Mitogen activated protein kinase kinase kinase 1	U48596
X87157_at	2.07	Neurolysin (metallopeptidase M3 family)	X87157
M23697_at	2.05	Plasminogen activator, tissue	M23697
X66022mRNA#3_i_at	2.03	Neuronal d4 domain family member	X66022
U17254_at	1.99	Immediate early gene transcription factor NGFI-B	U17254
L20822_at	1.93	Syntaxin 5a	L20822
U90610_g_at	1.91	Chemokine receptor (LCR1)	U90610
M55417exon_s_at	1.90	Rat protein kinase C-gamma (PRKC-gamma) gene, exon 1.	M55417
rc_AI071965_s_at	1.88	cDNA clone UI-R-C2-nl-e-03-0-UI 3', mRNA sequence.	AI071965
M11794cds#2_f_at	1.84*	Rat metallothionein-2 and metallothionein-1 genes, complete cds.	M11794
M84488_at	1.78	Vascular cell adhesion molecule 1	M84488
U59801_at	1.73	Integrin alpha M	U59801
rc_AA925248_at	1.72	Sodium channel, voltage-gated, type 6, alpha polypeptide	AA925248
J04486_at	1.71	Insulin-like growth factor binding protein 2	J04486
U13396_g_at	1.69	Janus kinase 2	U13396
rc_AI229707_s_at	1.68	Tubulin, beta 5	AI229707
S82649_s_at	1.67	Narp=neuronal activity-regulated pentraxin [rats, hippocampus, mRNA, 2562 nt].	S82649
M58587_at	1.62	Interleukin 6 receptor	M58587
X13016_at	1.60	CD48 antigen	X13016
AJ132230_g_at	1.60	Bradykinin receptor B1	AJ132230
AF041373_s_at	1.59	Phosphatidylinositol binding clathrin assembly protein	AF041373
AF030089UTR#1_at	1.59	Double cortin and calcium/calmodulin-dependent protein kinase-like 1	AF030089
U68562mRNA#2_s_at	1.58	GroEL homolog; mitochondrial chaperonin	U68562
D12498_s_at	1.56	Fibroblast growth factor receptor 1	D12498
rc_AA925246_at	1.55	Cathepsin K	AA925246
M19257_at	1.54	Retinol binding protein 1	M19257
J03624_at	1.53	Galanin	J03624
Y00497_s_at	1.53	Superoxide dismutase 2	Y00497
X63722cds_s_at	1.52	Vascular cell adhesion molecule 1	X63722

Gene elements in bold font were also upregulated by PGD<sub>2</sub> in BF.

'-' 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