

## SuppTable4A.xls

Supplementary Table 4A. Genes found to be downregulated in Basal Forebrain by at least 50% in response to CGS21680 (N=77).

Probeset Name	Fold Difference	Gene Name	Genbank #
M21410_s_at	--	serotonin 1c receptor; Rat serotonin 1c receptor mRNA, complete cds.	M21410
<b>rc_AI030685_s_at</b>	<b>—</b>	<b>Nestin</b>	<b>A1030685</b>
U11418_s_at	--	Glutamate receptor, ionotropic, N-methyl D-aspartate 1	U11418
U51898_at	--	Phospholipase A2, group VI	U51898
U69882_at	--	Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2	U69882
U73142_at	--	Mitogen activated protein kinase 14	U73142
M31076_at	10.58	Transforming growth factor alpha	M31076
<b>X17012mRNA_s_at</b>	<b>3.76*</b>	<b>Rat IGFII gene for insulin-like growth factor II.</b>	<b>X17012</b>
U37058_at	3.69	Neuromedin B receptor	U37058
X12589cds_s_at	3.66	potassium channel protein (AA 1-495); Rat mRNA for voltage-dependent potassium channel protei	X12589
<b>U88036_at</b>	<b>3.30</b>	<b>Solute carrier family 21 (organic anion transporter), member 5</b>	<b>U88036</b>
<b>M35077_s_at</b>	<b>3.18</b>	<b>Dopamine receptor 1A</b>	<b>M35077</b>
U16845_at	2.82	Neurotrimin	U16845
<b>X51992_at</b>	<b>2.41*</b>	<b>Gamma-aminobutyric acid A receptor, alpha 5</b>	<b>X51992</b>
rc_AI045501_s_at	2.40	Neuronal pentraxin receptor	A1045501
rc_AI178835_at	2.25	Mitogen activated protein kinase kinase 1	A1178835
<b>AB003992_s_at</b>	<b>2.18</b>	<b>Rat mRNA for SNAP-25B, complete cds.</b>	<b>AB003992</b>
J03754Complete_seq_at	2.16	ATPase, Ca transporting, plasma membrane 2	J03754
X01032_at	2.04	Cholecystokinin	X01032
rc_AI228850_s_at	2.02	Microtubule-associated protein 2	A1228850
<b>S56679_s_at</b>	<b>1.98</b>	<b>GluR-A; AMPA-selective glutamate receptor-A</b>	<b>S56679</b>
M26161_at	1.97	Potassium voltage-gated channel, shaker-related subfamily, member 1	M26161
X53455cds_s_at	1.96	Rat mRNA for microtubule-associated protein 2.	X53455
X15468cds_at	1.92	Rat mRNA for GABA(A) receptor beta-3 subunit.	X15468
X62841mRNA_at	1.92	R.rattus mRNA for potassium channel protein (2858 bp).	X62841
S75687_s_at	1.91	GLAST; glutamate/aspartate transporter [rats, Sprague-Dawley, cochleae, mRNA Partial, 990 nt].	S75687
<b>X14788_s_at</b>	<b>1.88</b>	<b>CAMP responsive element binding protein 1</b>	<b>X14788</b>
M32867_at	1.85	Potassium voltage gated channel, shaker related subfamily, member 4	M32867
rc_AI145494_g_at	1.82	Synapsin 2	A1145494
<b>U34963_s_at</b>	<b>1.82</b>	<b>Bcl2-like 1</b>	<b>U34963</b>
<b>D13125_at</b>	<b>1.79</b>	<b>Neural visinin-like Ca2+binding protein type 2</b>	<b>D13125</b>
M36418_s_at	1.78	Glutamate receptor, ionotropic, AMPA1 (alpha 1)	M36418
AB003991_g_at	1.78	rat mRNA for SNAP-25A, complete cds.	AB003991
D12519_s_at	1.78	Syntaxin 1a	D12519
S59525_s_at	1.77	GnRH-R; gonadotropin-releasing hormone receptor [rats, pituitary gland, mRNA, 2256 nt].	S59525
U30938_at	1.77	Microtubule-associated protein 2	U30938
S74265_s_at	1.77	HMW MAP2=high molecular weight microtubule-associated protein	S74265
rc_AI029183_s_at	1.76	Gap junction membrane channel protein alpha 1	A1029183
AF022819_at	1.76	Putative potassium channel TWIK	AF022819
<b>M86621_at</b>	<b>1.74</b>	<b>Calcium channel, voltage-dependent, alpha2/delta subunit 1</b>	<b>M86621</b>
<b>M22254_at</b>	<b>1.73</b>	<b>Sodium channel, voltage-gated, type 2, alpha 1 polypeptide</b>	<b>M22254</b>
rc_AA955388_s_at	1.71	ATPase, Ca transporting, plasma membrane 2	AA955388
Z34264_at	1.67	Potassium voltage-gated channel, subfamily H (eag-related), member 1	Z34264
M17526_at	1.65	Guanine nucleotide binding protein, alpha o	M17526
rc_AI235758_s_at	1.64	Protein kinase, cAMP dependent regulatory, type II beta	A1235758
X66022mRNA#1_s_at	1.64	Neuronal d4 domain family member	X66022
<b>AF042714_at</b>	<b>1.64</b>	<b>Neurexophilin 4</b>	<b>AF042714</b>
D13962_g_at	1.63	Solute carrier family 2, member 2	D13962
<b>M55291_at</b>	<b>1.63</b>	<b>Neurotrophic tyrosine kinase, receptor, type 2</b>	<b>M55291</b>

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rc_AI171166_at	1.63	Suppression of tumorigenicity 13 (colon carcinoma) Hsp70-interacting protein	AI171166
<b>M16112_at</b>	<b>1.63</b>	<b>Calcium/calmodulin-dependent protein kinase II beta subunit</b>	<b>M16112</b>
<b>AF005720mRNA#3_s_at</b>	<b>1.63</b>	<b>CIC-2Sb; Rattus norvegicus chloride channel (CIC-2) gene, alternatively spliced</b>	<b>AF005720</b>
rc_AA893870_g_at	1.62	EST197673 Normalized rat placenta, Bento Soares Rattus sp. cDNA clone RPLAM86 3' end	AA893870
U56261_s_at	1.60	Synaptosomal-associated protein	U56261
<b>Y00766_at</b>	<b>1.60</b>	<b>Sodium channel, voltage-gated, type III, alpha polypeptide</b>	<b>Y00766</b>
<b>rc_AI176456_at</b>	<b>1.60</b>	<b>Transcribed locus, highly similar to NP_032656.1 metallothionein 2</b>	<b>AI176456</b>
L08491cds_at	1.59	first 10 codons are missing; Rattus norvegicus GABA-A receptor alpha-2 subunit gene, partial cds.	L08491
AB016160_g_at	1.58	Gamma-aminobutyric acid (GABA) B receptor, 1	AB016160
AFFX_ratb1/X12957_at	1.58	Rat DNA for B1 repeat (1-42) from gamma crystallin gene cluster.	X12957
<b>AF028784mRNA#1_s_at</b>	<b>1.58</b>	<b>intermediate filament; Rat glial fibrillary acidic proteins alpha and delta</b>	<b>AF028784</b>
<b>Z11548_at</b>	<b>1.58</b>	<b>Glutamate receptor, ionotropic, kainate 2</b>	<b>Z11548</b>
<b>S71570_s_at</b>	<b>1.57</b>	<b>CaM kinase II isoform gamma-b</b>	<b>S71570</b>
rc_AI145494_at	1.57	Synapsin 2	AI145494
<b>K03486_s_at</b>	<b>1.57</b>	<b>Protein kinase C, beta 1</b>	<b>K03486</b>
<b>rc_AI227665_s_at</b>	<b>1.56</b>	<b>V-raf murine sarcoma 3611 viral oncogene homolog 1</b>	<b>AI227665</b>
rc_AI228113_s_at	1.56	Neuronal pentraxin receptor	AI228113
AJ006710_at	1.56	Phosphatidylinositol 3-kinase	AJ006710
rc_AI177026_at	1.55	ATPase, Na transporting, alpha 2	AI177026
X54656_at	1.54	Glutamate receptor, ionotropic, AMPA3 (alpha 3)	X54656
U50147_at	1.53	Discs, large homolog 3 (Drosophila)	U50147
X15467cds_at	1.52	Rat mRNA for GABA(A) receptor beta-2 subunit.	X15467
<b>rc_AI227647_s_at</b>	<b>1.52</b>	<b>Chemokine (C-X3-C motif) ligand 1</b>	<b>AI227647</b>
S94371_g_at	1.52	GluR-4c; glutamate receptor subunit 4c	S94371
L39018_at	1.52	Sodium channel, voltage-gated, type 8, alpha polypeptide	L39018
U35371_at	1.52	Contactin 4	U35371
M27812_at	1.51	Synapsin 1	M27812
M23601_at	1.50	Monoamine oxidase B	M23601

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

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

\*Change confirmed as significant by Taqman analysis

^Change NOT found to be significant by Taqman analysis