

## SuppTable2A.xls

Supplementary Table 2A. Genes found to be downregulated in Basal Forebrain by at least 50% in response to PGD<sub>2</sub> (N=63).

Probeset Name	Fold Difference	Gene Name	Genbank #
L02615_at	--	Protein kinase inhibitor, alpha	L02615
L08497cds_at	--	Rattus norvegicus GABA-A receptor gamma-2 subunit gene, complete cds.	L08497
L21995_s_at	--	Myelin oligodendrocyte glycoprotein	L21995
M20636_s_at	--	phospholipase C-1; Rat phospholipase C-1 mRNA, complete cds.	M20636
<b>rc_AI030685_s_at</b>	<b>--</b>	<b>Nestin</b>	<b>AI030685</b>
S77863_s_at	--	mu-opioid receptor MOR [rats, peritoneal macrophages, mRNA Partial, 720 nt].	S77863
U18650_at	--	Huntington disease gene homolog	U18650
X05137_at	--	Nerve growth factor receptor (TNFR superfamily, member 16)	X05137
X57281_at	--	Glycine receptor, alpha 2 subunit	X57281
X74835cds_at	--	Cholinergic receptor, nicotinic, delta polypeptide	X74835
X77209_at	--	R.norvegicus Hsp70-3 gene.	X77209
Z11504cds_at	--	R.rattus mRNA for NPY-1 receptor.	Z11504
rc_AI137246_s_at	16.92	Ig VH193020=anti-insulin 193020 monoclonal antibody heavy chain variable region	S65980
<b>M86621_at</b>	<b>13.93</b>	<b>Calcium channel, voltage-dependent, alpha2/delta subunit 1</b>	<b>M86621</b>
M81783_at	11.35	Potassium voltage-gated channel, subfamily F, member 1	M81783
Z38067exon_g_at	7.42	R.norvegicus DNA for c-myc, exon 2.	Z38067
AJ012603UTR#1_g_at	6.25	A disintegrin and metalloproteinase domain 17	AJ012603
AF027954_at	5.02^	Bcl-2-related ovarian killer protein (bok)	AF027954
M25157mRNA_i_at	4.33	Superoxide dismutase 1	M25157
<b>M35077_s_at</b>	<b>3.55</b>	<b>Dopamine receptor 1A</b>	<b>M35077</b>
M64785_g_at	3.31	Arginine vasopressin	M64785
<b>X17012mRNA_s_at</b>	<b>2.82*</b>	<b>Rat IGFI gene for insulin-like growth factor II.</b>	<b>X17012</b>
U78090_s_at	2.77	Potassium channel regulator 1	U78090
M25646_at	2.56	Arginine vasopressin	M25646
<b>U88036_at</b>	<b>2.46</b>	<b>Solute carrier family 21 (organic anion transporter), member 5</b>	<b>U88036</b>
M91466_at	2.42	Adenosine A2B receptor	M91466
<b>X14788_s_at</b>	<b>2.40</b>	<b>CAMP responsive element binding protein 1</b>	<b>X14788</b>
AF044910_at	2.37	Survival motor neuron	AF044910
<b>X51992_at</b>	<b>2.30*</b>	<b>Gamma-aminobutyric acid A receptor, alpha 5</b>	<b>X51992</b>
M22357_at	1.91	Myelin-associated glycoprotein	M22357
Y14635_s_at	1.88	Amiloride-sensitive cation channel 1	Y14635
<b>Z11548_at</b>	<b>1.86</b>	<b>Glutamate receptor, ionotropic, kainate 2</b>	<b>Z11548</b>
AJ001029_at	1.84	SRY-box containing gene 10	AJ001029
M59786_at	1.78	Calcium channel, voltage-dependent, alpha 1C subunit	M59786
M31174_g_at	1.77	Thyroid hormone receptor alpha	M31174
D12573_at	1.75	Hippocalcin	D12573
L08493cds_s_at	1.74	Rattus norvegicus GABA-A receptor alpha-4 subunit gene, complete cds.	L08493
<b>K03486_s_at</b>	<b>1.72</b>	<b>Protein kinase C, beta 1</b>	<b>K03486</b>
<b>rc_AI176456_at</b>	<b>1.71</b>	<b>Transcribed locus, highly similar to NP_032656.1 metallothionein 2</b>	<b>AI176456</b>
<b>rc_AI227647_s_at</b>	<b>1.70</b>	<b>Chemokine (C-X3-C motif) ligand 1</b>	<b>AI227647</b>
<b>S56679_s_at</b>	<b>1.70</b>	<b>GluR-A; AMPA-selective glutamate receptor-A</b>	<b>S56679</b>
<b>AF028784mRNA#1_s_at</b>	<b>1.68</b>	<b>intermediate filament; glial fibrillary acidic proteins alpha and delta</b>	<b>AF028784</b>
Z38067exon_at	1.68	R.norvegicus DNA for c-myc, exon 2.	Z38067
<b>M22254_at</b>	<b>1.65</b>	<b>Sodium channel, voltage-gated, type 2, alpha 1 polypeptide</b>	<b>M22254</b>
<b>rc_AI227665_s_at</b>	<b>1.65</b>	<b>V-raf murine sarcoma 3611 viral oncogene homolog 1</b>	<b>AI227665</b>
<b>AB003992_s_at</b>	<b>1.65</b>	<b>Rat mRNA for SNAP-25B, complete cds.</b>	<b>AB003992</b>
M12492mRNA#1_g_at	1.64	Protein kinase, cAMP dependent regulatory, type II beta	M12492
<b>Y00766_at</b>	<b>1.64</b>	<b>Sodium channel, voltage-gated, type III, alpha polypeptide</b>	<b>Y00766</b>
AF000423_at	1.63	Synaptotagmin 11	AF000423

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M92076_at	1.63	Glutamate receptor, metabotropic 3	M92076
<b>S71570_s_at</b>	<b>1.61</b>	<b>CaM kinase II isoform gamma-b</b>	<b>S71570</b>
M16407_at	1.61	Cholinergic receptor, muscarinic 3	M16407
<b>M16112_at</b>	<b>1.60</b>	<b>Calcium/calmodulin-dependent protein kinase II beta subunit</b>	<b>M16112</b>
<b>M55291_at</b>	<b>1.58</b>	<b>Neurotrophic tyrosine kinase, receptor, type 2</b>	<b>M55291</b>
S46131mRNA_s_at	1.56	D1 receptor; dopamine D1 receptor {promoter} [rats, Genomic, 6251 nt].	S46131
<b>AF042714_at</b>	<b>1.55</b>	<b>Neurexophilin 4</b>	<b>AF042714</b>
Z11581_at	1.54	Glutamate receptor, ionotropic, kainate 5	Z11581
<b>D13125_at</b>	<b>1.53</b>	<b>Neural visinin-like Ca2+binding protein type 2</b>	<b>D13125</b>
AF021923_at	1.53	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 2	AF021923
K01701_at	1.52	precursor; Rat oxytocin/neurophysin (Oxt) gene, complete gene, complete cds.	K01701
<b>AF005720mRNA#3_s_at</b>	<b>1.52</b>	<b>CIC-2Sb; Rattus norvegicus chloride channel (CIC-2) gene, alternatively spliced</b>	<b>AF005720</b>
M93273_at	1.52	Somatostatin receptor 2	M93273
<b>U34963_s_at</b>	<b>1.51</b>	<b>Bcl2-like 1</b>	<b>U34963</b>

Gene elements in bold font were also downregulated by CGS21680 in BF.

'--' denotes gene elements present in control chips and absent in PGD<sub>2</sub> chips.

\*Change confirmed as significant by Taqman analysis

^Change NOT found to be significant by Taqman analysis