

Table S1. Genes and their target names on PCR chips for Open Array technology

No	Gene	Target Name	Reporter
1.	<i>Gfap</i>	Mm01253033_m1	FAM
2.	<i>Cyc1</i>	Mm00470540_m1	FAM
3.	<i>Th</i>	Mm00447557_m1	FAM
4.	<i>Ddc</i>	Mm00516688_m1	FAM
5.	<i>Dbh</i>	Mm00460472_m1	FAM
6.	<i>Pnmt</i>	Mm00476993_m1	FAM
7.	<i>Maoa</i>	Mm00558004_m1	FAM
8.	<i>Maob</i>	Mm00555412_m1	FAM
9.	<i>Comt</i>	Mm00514377_m1	FAM
10.	<i>Drd1</i>	Mm02620146_s1	FAM
11.	<i>Drd2</i>	Mm00438545_m1	FAM
12.	<i>Drd3</i>	Mm00432887_m1	FAM
13.	<i>Drd4</i>	Mm00432893_m1	FAM
14.	<i>Drd5</i>	Mm04210376_s1	FAM
15.	<i>Kif1a</i>	Mm00492863_m1	FAM
16.	<i>Kif1b</i>	Mm00801813_m1	FAM
17.	<i>Kif5a</i>	Mm00515265_m1	FAM
18.	<i>Kif2c</i>	Mm00728630_s1	FAM
19.	<i>Dync1h1</i>	Mm00466548_m1	FAM
20.	<i>Dynll1</i>	Mm00850282_g1	FAM
21.	<i>Dctn1</i>	Mm01184845_m1	FAM
22.	<i>Mapt</i>	Mm00521988_m1	FAM
23.	<i>Map2</i>	Mm00485231_m1	FAM
24.	<i>Mark2</i>	Mm01220150_g1	FAM
25.	<i>Tubb3</i>	Mm00727586_s1	FAM
26.	<i>Tuba1a</i>	Mm00846967_g1	FAM
27.	<i>Snca</i>	Mm01188700_m1	FAM
28.	<i>Syn1</i>	Mm00449772_m1	FAM
29.	<i>Stx1a</i>	Mm00444008_m1	FAM
30.	<i>Syt1</i>	Mm00436858_m1	FAM
31.	<i>Syt11</i>	Mm00444517_m1	FAM
32.	<i>Rab5a</i>	Mm00727887_s1	FAM
33.	<i>Rab7</i>	Mm00784318_sH	FAM
34.	<i>Nsf</i>	Mm00435390_m1	FAM
35.	<i>Dnm1l</i>	Mm01342903_m1	FAM
36.	<i>Vps35</i>	Mm00458167_m1	FAM
37.	<i>Sod1</i>	Mm01344233_g1	FAM
38.	<i>Gpx1</i>	Mm00656767_g1	FAM
39.	<i>Gsr</i>	Mm00439154_m1	FAM
40.	<i>Txnrd1</i>	Mm00443675_m1	FAM
41.	<i>Nos1</i>	Mm01208059_m1	FAM
42.	<i>Prdx1</i>	Mm01621996_s1	FAM
43.	<i>Nfe2l2</i>	Mm00477784_m1	FAM
44.	<i>Keap1</i>	Mm00497268_m1	FAM
45.	<i>Sigmar1</i>	Mm01223547_g1	FAM
46.	<i>Park2</i>	Mm01323528_m1	FAM
47.	<i>Ube2n</i>	Mm00779119_s1	FAM

48.	<i>Uba3</i>	Mm00495866_m1	FAM
49.	<i>Psmb4</i>	Mm01263563_m1	FAM
50.	<i>Psmc3</i>	Mm00477177_m1	FAM
51.	<i>Psmc4</i>	Mm01263490_m1	FAM
52.	<i>Usp47</i>	Mm00659716_m1	FAM
53.	<i>Ubb</i>	Mm01622233_g1	FAM
54.	<i>Ifng</i>	Mm01168134_m1	FAM
55.	<i>Tgfb1</i>	Mm01178820_m1	FAM
56.	<i>Akt1</i>	Mm01331626_m1	FAM
57.	<i>Ptgs2</i>	Mm00478374_m1	FAM
58.	<i>Traf1</i>	Mm00493827_m1	FAM
59.	<i>Cxcl11</i>	Mm00444662_m1	FAM
60.	<i>Casp1</i>	Mm00438023_m1	FAM
61.	<i>Casp3</i>	Mm01195085_m1	FAM
62.	<i>Parp1</i>	Mm01321084_m1	FAM
63.	<i>Aifm1</i>	Mm00442548_m1	FAM
64.	<i>Bcl2l11</i>	Mm00437796_m1	FAM
65.	<i>Map3k5</i>	Mm00434883_m1	FAM
66.	<i>Cib1</i>	Mm00501944_m1	FAM
67.	<i>Trp53</i>	Mm01731290_g1	FAM
68.	<i>Bax</i>	Mm00432051_m1	FAM
69.	<i>Fos</i>	Mm00487425_m1	FAM
70.	<i>Mapk8</i>	Mm00489514_m1	FAM
71.	<i>Lamp2</i>	Mm00495267_m1	FAM
72.	<i>Atg16l1</i>	Mm00513085_m1	FAM
73.	<i>Atg5</i>	Mm01187303_m1	FAM
74.	<i>Tnf</i>	Mm00443258_m1	FAM
75.	<i>Ctsb</i>	Mm01310506_m1	FAM
76.	<i>Capn1</i>	Mm00482964_m1	FAM
77.	<i>Ern2</i>	Mm00469005_m1	FAM
78.	<i>Eif2ak3</i>	Mm00438700_m1	FAM
79.	<i>Atf6</i>	Mm01295319_m1	FAM

Table S2. Genes that are not expressed in the substantia nigra in mice

<b>Gene</b>	<b>Protein</b>
<b>Monoamines synthesis, degradation</b>	
<i>Dbh</i>	Dopamine beta-hydroxylase
<i>Pnmt</i>	Phenylethanolamine-N-methyltransferase
<b>Dopamine transport and reception</b>	
<i>Drd1</i>	Dopamine receptor D1
<i>Drd3</i>	Dopamine receptor D3
<i>Drd4</i>	Dopamine receptor D4
<i>Drd5</i>	Dopamine receptor D5
<b>Axonal transport</b>	
<i>Kif2c</i>	Kinesin family member 2C
<b>Inflammation and glial activation</b>	
<i>Ifng</i>	Interferon gamma
<i>Ptgs2</i>	Prostaglandin-endoperoxide synthase 2
<i>Traf1</i>	TNF receptor-associated factor 1
<i>Cxcl11</i>	Chemokine (C-X-C motif) ligand 11
<b>Cell death</b>	
<i>Casp1</i>	Caspase 1
<i>Tnf</i>	Tumor necrosis factor
<i>Ern2</i>	Serine/threonine-protein kinase/endoribonuclease IRE2