

**Table S2** - Down-regulated genes in MPTP-treated substantia nigral region versus control substantia nigral region.

Probe ID	Gene symbol	Gene title	Average fold change	Average log 2 (Fold change)	P value
10593421	1110032A03Rik	RIKEN cDNA 1110032A03 gene	0.765556	-0.38542	0.024056
10537292	1810058I24Rik	RIKEN cDNA 1810058I24 gene	0.739981	-0.43444	0.017921
10438567	2310042E22Rik	RIKEN cDNA 2310042E22 gene	0.749611	-0.41579	0.017156
10416727	4921530L21Rik	RIKEN cDNA 4921530L21 gene	0.758931	-0.39796	0.022102
10419803	4931414P19Rik	RIKEN cDNA 4931414P19 gene	0.719943	-0.47405	0.004242
10584561	9030425E11Rik	RIKEN cDNA 9030425E11 gene	0.765806	-0.38495	0.027008
10584244	9230113P08Rik	RIKEN cDNA 9230113P08 gene	0.741714	-0.43106	0.011919
10592188	9230113P08Rik	RIKEN cDNA 9230113P08 gene	0.679959	-0.55648	0.048598
10403396	Adarb2	adenosine deaminase, RNA-specific, B2	0.767761	-0.38127	0.048102
10585467	Agphd1	aminoglycoside phosphotransferase domain containing 1	0.734465	-0.44524	0.012609
10562605	AI987944	expressed sequence AI987944	0.677771	-0.56113	0.048536
10407445	Akr1c12	aldo-keto reductase family 1, member C12	0.665777	-0.58689	0.024268
10595668	Ankrd34c	ankyrin repeat domain 34C	0.73011	-0.45381	0.038135
10410955	Atp6ap11	ATPase, H <sup>+</sup> transporting, lysosomal accessory protein 1-like	0.633161	-0.65935	0.030804
10593751	AY074887	cDNA sequence AY074887	0.706059	-0.50214	0.008343
10402598	Begain	brain-enriched guanylate kinase-associated	0.761597	-0.3929	0.016465
10365590	Ccdc53	coiled-coil domain containing 53	0.746105	-0.42255	0.032431
10379530	Ccl12	chemokine (C-C motif) ligand 12	0.682918	-0.55021	0.038736
10432180	Ccnt1	cyclin T1	0.76917	-0.37862	0.048295
10458382	Cd14	CD14 antigen	0.658048	-0.60373	0.013247
10474223	Cd59b	CD59b antigen	0.688969	-0.53749	0.039723
10503198	Chd7	chromodomain helicase DNA binding protein 7	0.725851	-0.46226	0.024472
10593756	Chrna3	cholinergic receptor, nicotinic, alpha polypeptide 3	0.677583	-0.56153	0.007298
10540333	Cntn6	contactin 6	0.763688	-0.38894	0.008695
10369290	Ddit4	DNA-damage-inducible transcript 4	0.697558	-0.51961	0.049448
10488633	Defb22	defensin beta 22	0.738423	-0.43748	0.005882
10577337	Defb40	defensin beta 40	0.732403	-0.44929	0.007605
10545897	Dusp11	dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)	0.764962	-0.38654	0.038452
10556938	E130201H02Rik	Y box protein 1 pseudogene	0.721417	-0.4711	0.029512
10388734	Eral1	Era (G-protein)-like 1 (E. coli)	0.752882	-0.4095	0.048965
10498323	Fam194a	family with sequence similarity 194, member A	0.735124	-0.44394	0.019026
10590438	Fam198a	family with sequence similarity 198, member A	0.75946	-0.39696	0.046667
10594802	Fam63b	family with sequence similarity 63, member B	0.763228	-0.38981	0.041767

10504534	Frmpd1	FERM and PDZ domain containing 1	0.698482	-0.5177	0.014003
10502816	Gipc2	GIPC PDZ domain containing family, member 2	0.757115	-0.40142	0.002579
10450951	Glyat13	glycine-N-acyltransferase-like 3	0.722265	-0.4694	0.010171
10579049	Gm10033	predicted gene 10033	0.695029	-0.52486	0.028307
10594909	Gm10641	predicted gene 10641	0.754637	-0.40614	0.038436
10376425	Gm12258	predicted gene 12258	0.734083	-0.44598	0.004804
10485792	Gm13931	predicted gene 13931	0.610738	-0.71138	0.014808
10600733	Gm5072	predicted gene 5072	0.731969	-0.45015	0.001965
10591777	Gm6607	40S ribosomal protein S20 pseudogene	0.737094	-0.44008	0.028543
10586967	Gm7265	predicted gene 7265	0.757299	-0.40107	0.02751
10456353	Grp	gastrin releasing peptide	0.72831	-0.45737	0.049901
10500559	Hsd3b6	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 6	0.741331	-0.43181	0.035635
10403023	Ighv1-43	immunoglobulin heavy variable V1-43	0.704983	-0.50434	0.036704
10434845	Il1rap	interleukin 1 receptor accessory protein	0.767025	-0.38266	0.030652
10367440	Itga7	integrin alpha 7	0.737089	-0.44009	0.042966
10462195	Kank1	KN motif and ankyrin repeat domains 1	0.744766	-0.42514	0.037499
10548532	Klra9	killer cell lectin-like receptor subfamily A, member 9	0.713139	-0.48774	0.041302
10417704	Lrrc3b	leucine rich repeat containing 3B	0.739809	-0.43477	0.003465
10372151	Lrriq1	leucine-rich repeats and IQ motif containing 1	0.695578	-0.52372	0.036319
10470296	Mir126	microRNA 126	0.750545	-0.41399	0.038462
10350341	Mir181b-1	microRNA 181b-1	0.635034	-0.65509	0.005659
10479397	Ntsr1	neurotensin receptor 1	0.736338	-0.44156	0.038291
10484687	Olfr1136	olfactory receptor 1136	0.731865	-0.45035	0.046553
10556115	Olfr472	olfactory receptor 472	0.744555	-0.42555	0.045071
10555771	Olfr592	olfactory receptor 592	0.717873	-0.4782	0.021868
10367503	Olfr790	olfactory receptor 790	0.757317	-0.40103	0.019363
10591205	Olfr862	olfactory receptor 862	0.70826	-0.49765	0.031341
10584472	Olfr926	olfactory receptor 926	0.643649	-0.63566	0.012761
10542983	Pon1	paraoxonase 1	0.758252	-0.39925	0.046596
10542993	Pon3	paraoxonase 3	0.758978	-0.39787	0.044271
10362941	Prep	prolyl endopeptidase	0.768858	-0.37921	0.00518
10453715	Rab18	RAB18, member RAS oncogene family	0.666515	-0.58529	0.020236
10548899	Rerg	RAS-like, estrogen-regulated, growth-inhibitor	0.716548	-0.48087	0.001814
10494527	Rnf115	ring finger protein 115	0.762225	-0.39171	0.026774
10511353	Sdr16c6	short chain dehydrogenase/reductase family 16C, member 6	0.730474	-0.45309	0.016102
10494369	Sf3b4	splicing factor 3b, subunit 4	0.663834	-0.5911	0.025119
10362073	Sgk1	serum/glucocorticoid regulated kinase 1	0.439368	-1.1865	0.034963

10515134	Skint9	selection and upkeep of intraepithelial T cells 9	0.709628	-0.49487	0.044562
10522919	Smr2	submaxillary gland androgen regulated protein 2	0.667887	-0.58232	0.023427
10356154	Sphkap	SPHK1 interactor, AKAP domain containing	0.759275	-0.3973	0.040555
10600284	Srpk3	serine/arginine-rich protein specific kinase 3	0.704531	-0.50526	6.30E-04
10369702	Tet1	tet methylcytosine dioxygenase 1	0.720058	-0.47381	0.043154
10601555	Tgif2lx1	TGFB-induced factor homeobox 2-like, X-linked 1	0.74595	-0.42285	0.016433
10606548	Tgif2lx1	TGFB-induced factor homeobox 2-like, X-linked 1	0.762485	-0.39122	0.03216
10504692	Tmod1	tropomodulin 1	0.757097	-0.40145	0.020631
10362440	Trdn	triadin	0.547096	-0.87014	3.67E-04
10475293	Tubgcp4	tubulin, gamma complex associated protein 4	0.762966	-0.39031	0.006782
10410931	Vcan	versican	0.763574	-0.38916	0.016274
10554748	Vmn2r79	vomeronal 2, receptor 79	0.693429	-0.52818	0.041308
10603881	Zfp182	zinc finger protein 182	0.726611	-0.46074	0.013037
10385656	Zfp2	zinc finger protein 2	0.663827	-0.59112	0.007777
10408047	Zfp389	zinc finger protein 389	0.636711	-0.65129	0.030083
10488459	Zfp442	zinc finger protein 442	0.651242	-0.61874	0.028554
10583450	Zfp846	zinc finger protein 846	0.723949	-0.46604	0.013418
10386394	Zfp867	zinc finger protein 867	0.694285	-0.5264	0.044225
10552264	Zfp939	zinc finger protein 939	0.751229	-0.41268	0.012932
10338217	---	---	0.588745	-0.76429	0.023817
10338220	---	---	0.67548	-0.56601	0.021227
10338240	---	---	0.588245	-0.76551	0.04683
10338242	---	---	0.491807	-1.02383	0.046413
10338252	---	---	0.596993	-0.74422	0.011038
10338308	---	---	0.548098	-0.8675	0.038464
10338361	---	---	0.590447	-0.76012	0.046098
10338362	---	---	0.501715	-0.99506	0.0345
10338497	---	---	0.466209	-1.10095	0.049151
10338499	---	---	0.438077	-1.19075	0.009937
10338501	---	---	0.622843	-0.68306	0.04229
10338763	---	---	0.706918	-0.50039	0.040038
10338833	---	---	0.702636	-0.50915	0.022352
10338848	---	---	0.574045	-0.80076	0.008639
10338881	---	---	0.449691	-1.15299	0.011132
10338896	---	---	0.562812	-0.82927	0.023734
10338951	---	---	0.69765	-0.51943	0.006146
10339243	---	---	0.37439	-1.41739	0.009134

10339247	---	---	0.757184	-0.40128	0.030789
10339265	---	---	0.484459	-1.04555	0.018271
10339270	---	---	0.3694	-1.43674	0.005537
10339336	---	---	0.546624	-0.87138	0.029912
10339412	---	---	0.676818	-0.56316	0.030793
10339413	---	---	0.667975	-0.58213	0.035173
10339434	---	---	0.255252	-1.97001	0.015015
10339441	---	---	0.671124	-0.57535	0.048511
10339463	---	---	0.472547	-1.08147	0.02745
10339655	---	---	0.729955	-0.45412	0.030669
10339666	---	---	0.733778	-0.44659	0.036675
10339753	---	---	0.699941	-0.51469	0.034871
10339817	---	---	0.564363	-0.8253	0.027823
10339866	---	---	0.404291	-1.30654	0.043026
10339958	---	---	0.384068	-1.38057	0.04451
10339964	---	---	0.65873	-0.60224	0.023153
10340024	---	---	0.388129	-1.36539	0.009335
10340029	---	---	0.58509	-0.77327	0.031079
10340069	---	---	0.745334	-0.42404	0.002048
10340113	---	---	0.584407	-0.77496	0.004559
10340139	---	---	0.667075	-0.58408	0.011205
10340182	---	---	0.269854	-1.88975	0.00589
10340201	---	---	0.652349	-0.61629	0.011339
10340246	---	---	0.682379	-0.55136	0.02714
10340252	---	---	0.398916	-1.32584	0.020474
10340276	---	---	0.506202	-0.98221	0.001258
10340352	---	---	0.713463	-0.48709	0.020557
10340387	---	---	0.769117	-0.37873	0.026454
10340399	---	---	0.531058	-0.91306	0.022747
10340508	---	---	0.596773	-0.74475	0.010562
10340512	---	---	0.592009	-0.75631	0.030613
10340514	---	---	0.375767	-1.41209	0.001691
10340548	---	---	0.485464	-1.04257	0.003175
10340557	---	---	0.426103	-1.23073	0.012976
10340611	---	---	0.694894	-0.52513	0.01117
10340671	---	---	0.273337	-1.87124	0.001513
10340709	---	---	0.750766	-0.41356	0.0231
10340718	---	---	0.765301	-0.3859	0.011778
10340724	---	---	0.166361	-2.58761	0.003005
10340752	---	---	0.649225	-0.62321	0.039046

10340828	---	---	0.725806	-0.46234	0.023749
10340838	---	---	0.719272	-0.47539	0.041464
10340839	---	---	0.512083	-0.96555	0.021275
10340913	---	---	0.629289	-0.6682	0.035431
10341004	---	---	0.230021	-2.12016	0.018725
10341005	---	---	0.761853	-0.39242	0.042871
10341014	---	---	0.584453	-0.77484	5.46E-04
10341095	---	---	0.570062	-0.81081	0.003084
10341208	---	---	0.71418	-0.48564	0.02689
10341229	---	---	0.749017	-0.41693	0.006646
10341355	---	---	0.563442	-0.82766	0.009424
10341363	---	---	0.607567	-0.71888	0.027063
10341368	---	---	0.306851	-1.70439	0.007193
10341409	---	---	0.503216	-0.99075	0.010937
10341436	---	---	0.697974	-0.51876	0.005684
10341534	---	---	0.53068	-0.91408	0.044037
10341584	---	---	0.51596	-0.95467	0.02136
10341589	---	---	0.618714	-0.69266	0.043304
10341752	---	---	0.689236	-0.53693	0.018603
10341787	---	---	0.748192	-0.41852	0.001939
10341934	---	---	0.692173	-0.5308	0.02057
10341978	---	---	0.705667	-0.50294	0.044756
10342038	---	---	0.573637	-0.80179	0.019788
10342124	---	---	0.398189	-1.32848	0.010297
10342141	---	---	0.437976	-1.19108	0.026531
10342220	---	---	0.724755	-0.46444	0.042762
10342244	---	---	0.577913	-0.79107	0.03982
10342265	---	---	0.607796	-0.71834	0.032727
10342272	---	---	0.659219	-0.60117	0.046481
10342330	---	---	0.747943	-0.419	0.005136
10342380	---	---	0.558136	-0.84131	0.034145
10342476	---	---	0.522691	-0.93597	0.03612
10342512	---	---	0.521509	-0.93923	0.046526
10342519	---	---	0.578482	-0.78966	0.020606
10342538	---	---	0.616922	-0.69684	0.02351
10342645	---	---	0.464833	-1.10521	0.013949
10342648	---	---	0.529776	-0.91654	0.005648
10342786	---	---	0.644204	-0.63441	0.031913
10342853	---	---	0.46742	-1.09721	0.010914
10342926	---	---	0.73376	-0.44662	0.009812

10342975	---	---	0.479644	-1.05996	0.001537
10343007	---	---	0.668878	-0.58019	0.04525
10343091	---	---	0.577761	-0.79145	0.047315
10343119	---	---	0.536087	-0.89946	0.01123
10343143	---	---	0.598594	-0.74035	0.03869
10343157	---	---	0.634356	-0.65663	0.043936
10343191	---	---	0.451002	-1.14879	0.033643
10343202	---	---	0.543371	-0.87999	0.009678
10343260	---	---	0.674105	-0.56895	0.034777
10343283	---	---	0.763481	-0.38933	0.049428
10343313	---	---	0.646208	-0.62993	0.021569
10343349	---	---	0.261357	-1.93591	0.042254
10343417	---	---	0.664375	-0.58993	0.007717
10343441	---	---	0.504522	-0.98701	0.006828
10343473	---	---	0.71595	-0.48207	0.005619
10343483	---	---	0.747901	-0.41908	0.037386
10343551	---	---	0.244643	-2.03125	0.023397
10343553	---	---	0.482018	-1.05284	0.022352
10343566	---	---	0.446249	-1.16408	0.028812
10343612	---	---	0.764917	-0.38662	0.009713
10343649	---	---	0.674224	-0.5687	0.039127
10343667	---	---	0.518572	-0.94739	0.009024
10343676	---	---	0.675211	-0.56659	0.027202
10343684	---	---	0.490811	-1.02676	0.042401
10343692	---	---	0.742555	-0.42943	0.041881
10343722	---	---	0.531857	-0.91089	0.007035
10343741	---	---	0.766817	-0.38305	0.032398
10343755	---	---	0.70458	-0.50516	0.047168
10343912	---	---	0.561474	-0.83271	0.026546
10343920	---	---	0.573691	-0.80166	0.04935
10344060	---	---	0.678408	-0.55977	0.009954
10344100	---	---	0.580859	-0.78374	0.009818
10344102	---	---	0.40433	-1.30639	0.015351
10344182	---	---	0.547705	-0.86853	0.00982
10344428	---	---	0.466242	-1.10085	0.039694
10344440	---	---	0.733096	-0.44793	0.027419
10344449	---	---	0.681809	-0.55256	0.017512
10344524	---	---	0.378035	-1.40341	0.010912
10344580	---	---	0.577857	-0.79121	0.046273
10344591	---	---	0.603257	-0.72916	0.026356

10344601	---	---	0.695925	-0.523	0.035569
10348943	---	---	0.681028	-0.55421	0.038105
10369234	---	---	0.740232	-0.43395	0.016449
10385477	---	---	0.711968	-0.49011	0.016101
10397000	---	---	0.686464	-0.54274	0.03232
10398317	---	---	0.69794	-0.51883	0.033273
10399426	---	---	0.661684	-0.59579	0.041607
10400557	---	---	0.654207	-0.61218	0.00549
10406493	---	---	0.765312	-0.38588	0.016294
10408636	---	---	0.636459	-0.65186	0.03198
10428615	---	---	0.745244	-0.42422	0.04533
10440591	---	---	0.715773	-0.48243	0.026304
10449545	---	---	0.707048	-0.50012	0.012614
10469579	---	---	0.76025	-0.39546	0.031572
10484673	---	---	0.697998	-0.51871	0.02024
10503008	---	---	0.737457	-0.43937	0.013976
10505252	---	---	0.704597	-0.50513	0.042929
10507326	---	---	0.577029	-0.79329	0.030243
10528198	---	---	0.763256	-0.38976	0.042237
10536607	---	---	0.702617	-0.50919	0.019805
10567428	---	---	0.750363	-0.41434	0.041037
10567430	---	---	0.738682	-0.43698	0.002744
10567502	---	---	0.610499	-0.71194	0.025439
10567962	---	---	0.752154	-0.4109	0.043089
10571772	---	---	0.732299	-0.4495	0.003233
10584069	---	---	0.746935	-0.42094	0.026458
10608249	---	---	0.414293	-1.27127	0.041225
10608662	---	---	0.767445	-0.38186	0.03314