

**Table S2. Differential gene expression between groups (Gene Set).**

Gene name	6-OHDA/Control			WLP/6-OHDA		
	Log <sub>2</sub> FC	P-value	Regulate	Log <sub>2</sub> FC	P-value	Regulate
AABR07027407.1	-1.210787595	1.72E-07	down	0.700869893	0.008180424	up
AABR07045684.1	-0.518370959	0.015464	down	0.477516853	0.035958121	up
AABR07053749.2	-0.657664532	0.012732	down	1.497456635	0.033232495	up
AABR07055191.1	-5.897666767	7.71E-05	down	5.377483621	0.000603228	up
AC118772.2	-3.197521268	0.000815	down	4.336310715	1.68E-07	up
Alg10	-0.277916063	0.01805	down	0.301494224	0.012359887	up
Asph	-0.649078447	6.67E-14	down	0.349028364	0.000270967	up
Atp4a	-3.755203177	6.33E-20	down	1.807756986	0.002315587	up
Banp	-0.273560252	0.003384	down	0.404488758	3.10E-05	up
Cblb	-0.503696922	7.01E-06	down	0.303796142	0.015765334	up
Ccdc77	-0.623461511	1.66E-06	down	0.374955801	0.010004113	up
Chd7	-0.328372985	0.003092	down	0.266804092	0.022510979	up
Dcun1d2	-0.778250269	8.47E-05	down	0.515453133	0.02011667	up
Dgcr2	-0.441228343	4.96E-05	down	0.321586185	0.002002275	up
Egr1	-1.335410694	5.13E-33	down	0.65645573	7.44E-06	up
Emc2	-0.319099531	0.005045	down	0.284682729	0.0195004	up
Exosc6	-2.396346653	1.03E-14	down	1.902971707	0.040745974	up
Fam220a	-0.286585096	0.010482	down	0.264206434	0.032096729	up
Fkbp2	-0.312093686	1.34E-06	down	0.340614657	4.42E-06	up
Gemin6	-0.306529933	0.011638	down	0.273009611	0.037089007	up
Glt8d1	-0.465636816	5.63E-06	down	0.316664084	0.003612076	up
Hmgb211	-1.472208008	3.05E-07	down	0.774892943	0.021777284	up
Igfbp5	-0.484062365	0.001238	down	0.586563225	3.31E-06	up
Ina	-0.493825655	0.000294	down	0.294886166	0.046047886	up
Kcnj8	-0.595033307	0.04534	down	0.731532319	0.023606086	up
Knop1	-0.346357257	0.022079	down	0.391350427	0.014675398	up
Lats1	-0.462243075	2.86E-08	down	0.28041361	0.003060455	up
LOC102551606	-0.563716908	1.23E-07	down	0.346168278	0.001702463	up
LOC103689983	-0.950255373	0.000548	down	0.736972988	0.018746473	up
LOC103690006	-0.372509705	0.001729	down	0.684977405	8.79E-10	up
LOC108348082	-0.285165348	0.011459	down	0.456959414	0.001026934	up
Mgat5b	-5.252286391	0.000668	down	4.770314816	0.006629505	up
Mob3b	-0.956733662	2.45E-06	down	0.705508033	0.001721955	up
Msl1	-0.283945907	5.92E-06	down	0.36625271	2.92E-08	up
Mtss1	-0.302934786	2.52E-05	down	0.278131762	0.000541972	up
Mypop	-0.618851463	0.000476	down	0.392249343	0.035355397	up
Notch1	-0.316212634	0.029137	down	0.45702015	0.004111387	up
Nrn1	-1.035930613	8.92E-15	down	0.568026589	0.000406255	up
Prss53	-0.488820685	0.023941	down	0.595656255	0.008189735	up
Ranbp17	-0.718296448	6.38E-05	down	0.461214892	0.028693825	up
Rhob	-0.679759496	6.66E-39	down	0.485663515	4.13E-20	up
Sc1t1	-0.349134614	0.034801	down	0.361681238	0.039018973	up
Setd1b	-0.346854855	0.0003	down	0.279755563	0.006777877	up
Slc43a2	-0.404909445	0.004323	down	0.359344846	0.017450082	up
Slc6a17	-0.837131693	3.59E-11	down	0.410369437	0.004603381	up

Gene name	6-OHDA/Control			WLP/6-OHDA		
	Log <sub>2</sub> FC	P-value	Regulate	Log <sub>2</sub> FC	P-value	Regulate
Stk17b	-0.301310942	0.003116	down	0.268633044	0.014657059	up
Tbx2	-0.70189134	1.66E-16	down	0.276043257	0.0062224	up
Tcea3	-1.638783459	6.83E-05	down	0.994014181	0.041584226	up
Tfap2e	-0.361808141	0.002491	down	0.333749179	0.009366009	up
Wbp11	-0.581761314	3.55E-15	down	0.470061959	1.43E-09	up
Zfp600	-0.596899806	4.12E-05	down	0.356237324	0.025689743	up
7SK	0.664722432	0.024476	up	-0.700242692	0.012325776	down
AABR07002969.1	0.944955429	2.81E-45	up	-0.285300212	1.02E-05	down
AABR07008940.1	0.409128104	0.00611	up	-0.735876727	7.70E-05	down
AABR07015066.1	1.733063501	1.91E-22	up	-0.654516932	0.000391064	down
AABR07024203.1	4.484227078	3.98E-07	up	-2.425348338	0.000255966	down
AABR07024381.1	0.646070775	0.03513	up	-0.799035868	0.015807029	down
AABR07044375.2	0.967290285	3.01E-11	up	-0.283531007	0.032647057	down
AABR07044383.1	0.342345568	0.003102	up	-0.280134361	0.024582112	down
AABR07047011.1	0.448947471	0.001663	up	-0.438329725	0.003825989	down
AABR07049286.1	0.42645316	0.013337	up	-0.427745225	0.037561512	down
AABR07055154.1	0.555634479	2.04E-05	up	-0.510394213	0.000229286	down
AC098459.2	0.945826092	0.004653	up	-0.806359413	0.020663062	down
Acot8	0.432472718	0.002886	up	-0.381839124	0.01292201	down
Adrb2	0.563673659	0.008051	up	-0.490582173	0.031795711	down
Als2cl	0.273472163	0.002354	up	-0.351314224	0.000436017	down
Amdhd2	0.838372931	2.16E-29	up	-0.391211925	3.64E-07	down
Avpi1	0.480007474	5.64E-11	up	-0.346621971	2.48E-05	down
Birc7	0.833995286	0.007123	up	-0.738537521	0.019789793	down
Bola3	0.407633656	0.001154	up	-0.271626533	0.034850899	down
Card9	0.537952427	3.40E-15	up	-0.33606478	1.82E-07	down
Casp12	1.457942243	1.08E-13	up	-0.504325823	0.010795857	down
Cd248	5.166084406	0.001527	up	-4.962840606	0.003138811	down
Coro6	0.552547089	5.88E-17	up	-0.368284371	9.44E-08	down
Cox6a2	2.401394827	3.04E-45	up	-0.410525878	0.001642744	down
Crcr1	3.204576205	2.53E-37	up	-0.482436419	0.005682295	down
Cst6	1.19046827	1.53E-109	up	-0.373288406	1.72E-10	down
Ctla2a	0.775764521	0.000806	up	-0.759343141	0.001537856	down
Cyp3a9	3.829770872	8.68E-08	up	-0.810112169	0.000283203	down
Dolk	0.321115191	0.02393	up	-0.355535526	0.009593795	down
Dpp7	0.408157147	5.45E-19	up	-0.387138516	3.68E-14	down
Ell	0.495335134	2.46E-09	up	-0.342232595	0.00013236	down
Eno2	0.319539135	2.86E-09	up	-0.271918135	1.72E-06	down
F10	1.166278812	0.000231	up	-0.583500227	0.047712186	down
Gbp2	0.892104274	1.10E-26	up	-0.303186587	0.000227086	down
Gcat	0.786712613	1.12E-13	up	-0.465865914	3.22E-05	down
Gm23639	1.260185159	3.95E-25	up	-0.286576915	0.004467254	down
Gpn2	0.53749629	0.000574	up	-0.365736123	0.021653281	down
Gsta1	4.606175041	2.78E-169	up	-0.351663928	6.51E-05	down
Gstp1	1.695373662	0	up	-0.392627495	7.36E-23	down

Gene name	6-OHDA/Control			WLP/6-OHDA		
	Log <sub>2</sub> FC	P-value	Regulate	Log <sub>2</sub> FC	P-value	Regulate
Gstt1	0.395981855	0.025724	up	-0.516394164	0.005438805	down
Gstz1	0.404478666	0.017027	up	-0.364131405	0.041795964	down
Gzmb	0.490570412	0.001793	up	-0.3952892	0.017542502	down
Gzmb13	4.212457885	9.77E-07	up	-1.272134468	0.016931467	down
H1f2	0.906163309	1.12E-09	up	-0.415333804	0.003097339	down
H2aj	0.402214621	3.03E-05	up	-0.329986905	0.00114152	down
Herc3	0.655876863	1.46E-06	up	-0.30825731	0.024161171	down
Insyn1	0.494816025	2.12E-07	up	-0.298966172	0.001884633	down
Kif19	0.733058157	0.00431	up	-0.527368954	0.043450643	down
LOC100302465	1.653322257	1.32E-19	up	-0.600038696	0.000116424	down
LOC100912590	0.527892878	0.005923	up	-0.646001326	0.000474117	down
LOC103689945	0.503215556	1.11E-15	up	-0.316829937	0.000250792	down
LOC108348067	5.166084406	0.001527	up	-4.962840606	0.003138811	down
LOC108348096	0.314870237	0.004179	up	-0.281793371	0.010037992	down
Ly6d	1.634503313	1.41E-24	up	-1.095374673	1.84E-12	down
Lynx1	0.583832765	4.73E-11	up	-0.427502339	9.31E-06	down
Mgmt	1.808201197	4.77E-34	up	-0.302857501	0.017470479	down
Mt1	0.550356145	0.000124	up	-0.464300496	0.002257931	down
Nckipsd	0.579734309	2.17E-09	up	-0.27733104	0.004158905	down
NEWGENE_1304700	0.642031153	3.73E-06	up	-0.286956992	0.030766834	down
Pask	0.346788202	1.66E-05	up	-0.279149538	0.001052722	down
Phospho1	0.493707777	1.09E-08	up	-0.443237238	1.40E-06	down
Pinlyp	0.565693003	2.84E-05	up	-0.319699263	0.026234832	down
Plcg2	0.678672102	1.13E-07	up	-0.284663048	0.024601884	down
Pmm1	0.675303488	1.67E-47	up	-0.284151228	3.12E-09	down
Polr1e	0.381768847	0.005889	up	-0.387909635	0.013532633	down
Rab17	0.333067084	0.024674	up	-0.371550528	0.016890484	down
Rab33a	0.659150503	4.01E-12	up	-0.389856793	4.80E-05	down
Rapsn	0.287407828	0.005599	up	-0.691843558	3.36E-09	down
Rhpn2	0.288937875	1.61E-05	up	-0.273444803	0.000114097	down
Ripor2	0.282222093	0.040574	up	-0.345116905	0.022498477	down
Rnft2	0.472941615	0.001509	up	-0.453287843	0.003031127	down
Rpl13	0.341927138	0.01038	up	-0.32762883	0.018644779	down
Sema3b	0.617781948	3.83E-15	up	-0.33539862	1.32E-05	down
Siglec10	1.214696606	6.10E-18	up	-0.647113415	8.12E-07	down
Smim1011	0.437089956	0.001295	up	-0.361285702	0.007993066	down
Smlr1	0.763075191	8.36E-89	up	-0.733827318	7.78E-73	down
Stard8	2.359562326	0.000212	up	-1.290286997	0.018104227	down
Tac4	0.341062339	5.86E-07	up	-0.349896294	8.50E-07	down
Tmem63c	0.73397109	0.000207	up	-0.425925449	0.032248392	down
Trim63	0.432531388	5.22E-15	up	-0.320441426	3.36E-07	down
Wdr7	0.359298235	6.06E-12	up	-0.283327967	3.21E-07	down
Ydjc	0.309641988	0.00246	up	-0.300958721	0.010640045	down