

Supplementary Figure Legend and Table Legends.

Supplementary Figure 1. Validation of AAV-II-10 in nontransgenic mice.

a-c. Neonatal wild type mice were injected with different amounts of AAV-II-10 into the spinal cord and Il-10 levels were measured in lumbar spinal cord lysate prepared in RIPA buffer (a), CSF (b) and serum (c) of 3 week old mice. The three different doses injected were: High, 10^{10} viral genomes; Medium, 0.5×10^{10} viral genomes and Low, 10^9 viral genomes. 1-way Anova, $**p < 0.01$; $*p < 0.05$. Nd, not detected. d-f. Expression of Il-10 in the high dose injected mice increased GFAP expression as observed by immunoblotting (d). The values of GFAP protein band were normalized to actin and plotted (e). Representative brain images stained with GFAP are shown (f). 2 tailed unpaired t test; $**p < 0.01$. n=4 mice/group.

Supplementary Tables 1-10

Supplementary Table 1: Differential gene expression in spinal cord between Il10-injected vs GFP-injected homozygous M83 transgenic mice

Supplementary Table 2: List of genes from NanoString codeset used to impute M1-, M2- and DAM-type immune profile.

Supplementary Table 3. Differential gene expression in spinal cord between homozygous M83 and non-transgenic mice.

Supplementary Table 4: Overlapping gene expression changes in Il-10 expressing homozygous M83 mice vs aged, paralyzed homozygous M83 mice.

Supplementary Table 5: Differential gene expression in spinal cord between Il-10 injected vs GFP-injected hemizygous M83 transgenic mice

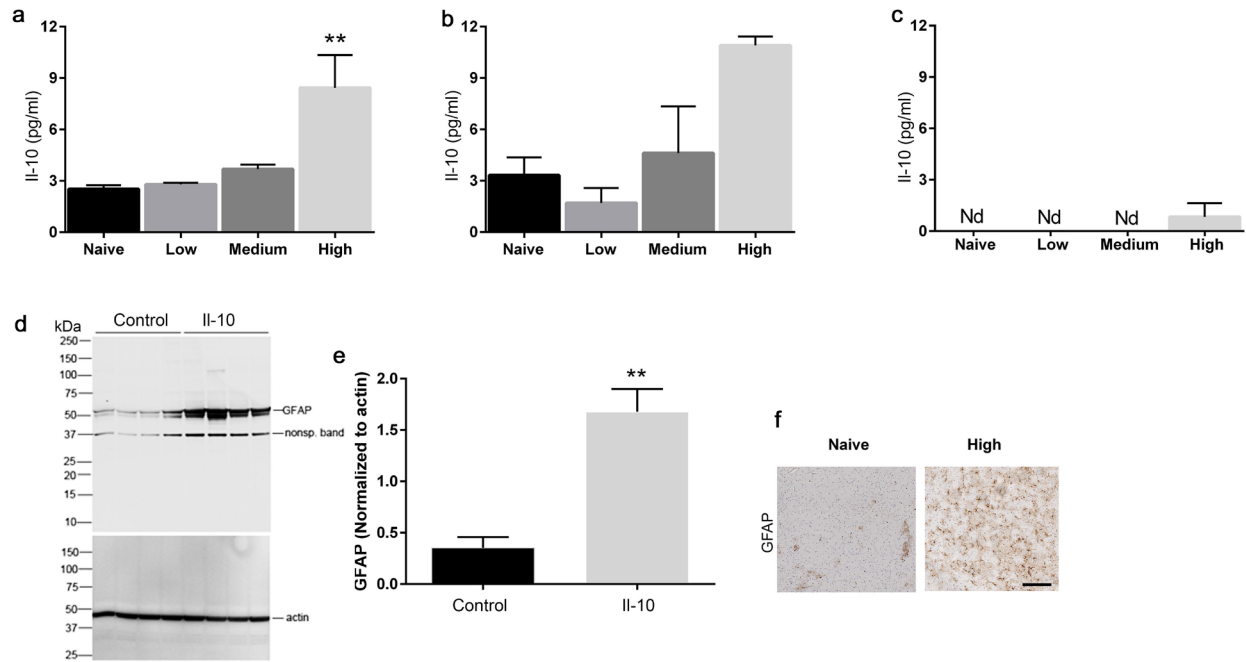
Supplementary Table 6: Differential gene expression in spinal cord between Il-10 injected, α -synuclein seeded vs Il-10 injected, non-seeded (PBS) hemizygous M83 mice

Supplementary Table 7: Differential gene expression in spinal cord between Il-10-injected, α -synuclein seeded vs GFP-injected, α -synuclein seeded hemizygous transgenic M83 mice.

Supplementary Table 8. Differential gene expression in spinal cord between α -synuclein seeded versus sham-seeded (PBS) hemizygous M83 transgenic mice

Supplementary Table 9: Overlapping gene expression changes in Il-10 expressing α -synuclein seeded M83^{+/-} mice vs control α -synuclein seeded M83^{+/-} mice.

Supplementary Table 10: List of antibodies used in the study.



Supplementary Figure 1. Validation of AAV-II-10 in nontransgenic mice.

a-c. Neonatal wild type mice were injected with different amounts of AAV-II-10 into the spinal cord and Il-10 levels were measured in lumbar spinal cord lysate prepared in RIPA buffer (a), CSF (b) and serum (c) of 3 week old mice. The three different doses injected were: High, 10^{10} viral genomes; Medium, 0.5×10^{10} viral genomes and Low, 10^9 viral genomes. 1-way Anova, $**p < 0.01$; $*p < 0.05$. Nd, not detected. d-f. Expression of Il-10 in the high dose injected mice increased GFAP expression as observed by immunoblotting (d). The values of GFAP protein band were normalized to actin and plotted (e). Representative brain images stained with GFAP are shown (f). 2 tailed unpaired t test; $**p < 0.01$. n=4 mice/group. 'nonsp.'=nonspecific.

Supplementary Table 1: Differential gene expression in spinal cord between Il-10 injected vs GFP-injected homozygous M83 transgenic mice

Base Mean= gene counts normalized to library depth; lfcSE=log (Fold Change) Standard Error; stat=Wald test statistics

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
Il10	12490.74227	13.49551668	0.87320897	15.45508251	6.97E-54	1.64E-51
Fcgr2b	243.5036657	2.199739729	0.277773436	7.919186811	2.39E-15	2.81E-13
Ccl8	41.31312411	3.247579667	0.721083293	4.503751092	6.68E-06	0.000522988
Fcgr4	118.1682517	1.785232879	0.432490065	4.127800899	3.66E-05	0.002151713
Ms4a6d	62.8482313	1.284898175	0.325842477	3.943310853	8.04E-05	0.003777126
Ccl5	44.78764641	2.47553824	0.656390166	3.771443216	0.000162306	0.006356989
Apoe	8313.289629	0.465819669	0.125993137	3.697182877	0.000218005	0.007318749
Chil3	20.62164335	2.799246164	0.780006138	3.588748894	0.000332269	0.009760393
Timp1	20.74719081	2.122012956	0.599813707	3.5377867	0.000403496	0.01003646
Abca1	205.7215932	0.625682925	0.177611739	3.522756603	0.000427083	0.01003646
Ptprc	46.74273194	1.293153969	0.40498975	3.193053571	0.001407768	0.030075049
Igfbp4	117.8473054	-0.744805204	0.24987528	-2.980707832	0.00287583	0.056318342
Igfbp5	101.6032407	-0.797798997	0.272929342	-2.923097209	0.003465683	0.062648885
Cd36	40.34741544	-1.494348257	0.519281264	-2.877724196	0.004005552	0.067236047
Itgb2	61.89588174	0.808158199	0.296127287	2.729090613	0.006350925	0.099497825
Il6	4.433168601	-2.763456086	1.029827726	-2.683415892	0.00728743	0.107034132
C5ar1	18.23531296	1.173156767	0.448906724	2.613364215	0.00896557	0.123935823
Fcgr3	67.43194505	0.634858787	0.248195989	2.557893017	0.010530848	0.137486077
Ms4a4a	13.45679775	1.78195407	0.7126177	2.500575091	0.012399184	0.149576639
Ccl2	31.16525728	1.58428251	0.635942175	2.491236738	0.012729927	0.149576639
C4a	645.7671657	0.798183858	0.322706723	2.473403252	0.013383304	0.149765539
Ctsc	128.3164067	1.021455828	0.419595834	2.43438029	0.014917313	0.159344028
P2ry12	123.7628662	-1.104767183	0.457249674	-2.416113661	0.015687164	0.16028189
Gjc2	150.5616757	-0.871815006	0.365295973	-2.386599004	0.017005028	0.165125941
Il1b	10.37484179	1.90820501	0.803580217	2.374629153	0.017566589	0.165125941
C1qa	407.390513	0.761988136	0.328749546	2.317837833	0.020458136	0.180635058
Myl2	28.60339256	-2.722247533	1.177222061	-2.312433333	0.020753815	0.180635058
C1qb	498.4449195	0.61522738	0.269285968	2.284661855	0.022332663	0.181281874
Cfb	12.0440646	1.379296251	0.603892438	2.284009806	0.022370955	0.181281874
S100a8	361.8696406	0.999865711	0.440267241	2.271042716	0.023144392	0.181297739
Ece2	302.3938394	-0.408577132	0.181794831	-2.247462861	0.024610462	0.186563176
Prph	220.2561612	-0.849634405	0.38385957	-2.213399044	0.026870147	0.194030155
Hspb1	358.7311702	0.738758277	0.334588019	2.207963929	0.027246788	0.194030155
Msr1	15.81251604	1.254410692	0.576270976	2.176772289	0.029497562	0.203880205
Trf	8329.280448	-0.713467905	0.333286804	-2.140702531	0.032298034	0.21685823
LRRK2_h	21.90343444	-0.881989057	0.420195662	-2.098996101	0.035817244	0.233807012
Hmox1	72.37793693	-0.496320686	0.243227281	-2.040563395	0.041294244	0.252994754
Ncf1	49.57640442	0.600758332	0.294889175	2.037234267	0.041626571	0.252994754
Fcer1g	42.81724101	0.890954317	0.438104886	2.033655285	0.041986364	0.252994754
Tubb5	831.2721472	-0.286523829	0.143399264	-1.998084374	0.045707514	0.263821506
Mapt_ex1	250.0790438	-0.372783696	0.186846588	-1.995132477	0.046028433	0.263821506
Alox5ap	25.92755227	0.802600351	0.404968208	1.981884837	0.047492131	0.265729783
Ptprn6	43.32816504	0.760932029	0.392417236	1.939089212	0.052490476	0.286866555
Gusb	71.26381719	0.514487246	0.268860172	1.913586689	0.055672987	0.297344363
Sox10	171.4381861	-0.373129818	0.198431749	-1.880393739	0.060054436	0.312642752
Cat	502.207505	-0.376808723	0.201280145	-1.872061065	0.061198156	0.312642752
Maff	16.24422212	1.068068458	0.575977843	1.85435685	0.063688124	0.318440619
Grn	329.85229	0.362809017	0.196690903	1.844564297	0.065100945	0.318723375
Crhr1	33.38100618	-0.635426872	0.357551294	-1.777162839	0.075541452	0.362290636
Dnm1l	525.2029786	-0.248125647	0.141399008	-1.754790579	0.079295136	0.372687138
C1ra	48.4228978	0.811221395	0.471624067	1.72005937	0.08542165	0.390352738
Serpina3n	467.8558077	0.396328775	0.231729519	1.710307674	0.087208994	0.390352738
Cd14	18.46103212	0.740008784	0.433807831	1.705844687	0.088037	0.390352738
Mef2c	95.25050685	-0.378854594	0.225593733	-1.679366661	0.093080607	0.40507301
Tnfrsf9	7.122622711	1.337268045	0.802493372	1.66639139	0.095635485	0.408624343
Tgfb1	159.3850787	-0.317386406	0.191806211	-1.654724337	0.097980428	0.411167868
Th	10.44275149	-0.990585589	0.603674302	-1.640927211	0.100812526	0.415630588
Ccl19	32.09534692	0.609982563	0.381732961	1.597930031	0.11005855	0.445926882
Myc	25.38263129	0.566354696	0.361303992	1.567529583	0.116990957	0.458558384
Creb1	105.6138777	-0.474874164	0.303016942	-1.567153843	0.117078736	0.458558384
Fcrls	42.5241686	0.727724248	0.469164059	1.551108262	0.120875741	0.46566884
Flii	224.9672853	-0.253613256	0.168114423	-1.508575236	0.131407367	0.488562681

Mme	71.61838902	-0.436180128	0.289139178	-1.508547303	0.13141451	0.488562681
Scna	937.4981845	-0.226434293	0.150738966	-1.502161642	0.133055368	0.488562681
Mmp3	3.655021446	-1.299522013	0.879953186	-1.476808124	0.139727078	0.498144421
Lrp1	589.7526722	0.195956608	0.133020328	1.473132798	0.140715231	0.498144421
Mrc1	65.65435182	0.512334967	0.348931941	1.468294833	0.142024154	0.498144421
Serping1	56.3437624	0.544249295	0.37353988	1.457004523	0.145115132	0.501500823
Ccr4	11.61389963	-0.874346114	0.604843146	-1.445574972	0.148296451	0.505067622
Zbp1	29.92884353	1.093065555	0.771231345	1.417299183	0.156395474	0.525041949
SCNA_h	31074.72019	-0.167789201	0.121206384	-1.384326431	0.166258524	0.550292299
C3ar1	43.37187021	0.53921199	0.398054292	1.354619208	0.17553891	0.566720917
Ppp2ca	1838.479322	-0.159771243	0.11810614	-1.352776772	0.176126956	0.566720917
C2	56.03953294	0.64244556	0.477469469	1.345521759	0.178456799	0.566720917
Adam10	454.7865363	-0.216458556	0.162313138	-1.333586173	0.182339517	0.56847721
Tubb3	1339.118136	-0.329920992	0.248247537	-1.329000064	0.183847949	0.56847721
Mapt_e9	42.98489992	-0.382559868	0.292083691	-1.30976114	0.190276653	0.574938026
Ftl	546.8371831	-0.268096806	0.204947196	-1.308126243	0.190830494	0.574938026
Cebpd	13.41962529	0.809282236	0.634218351	1.276030936	0.201944584	0.60072123
App	1971.041157	-0.174506645	0.138463762	-1.260305532	0.207559165	0.603044817
Npy	139.0644673	-0.40438262	0.321071793	-1.259477255	0.207858001	0.603044817
Cd55	126.5633909	-0.69395008	0.554706941	-1.251021087	0.210926784	0.603972531
Igfbp3	212.4392228	0.500756441	0.402377678	1.244493588	0.213317958	0.603972531
FTL_h	5.38572549	-0.90454014	0.738198098	-1.225335236	0.220448938	0.616732147
Mertk	77.92042948	0.398357961	0.328121466	1.214056386	0.224726193	0.621301828
Mmp2	43.58141005	-0.369752092	0.311845919	-1.18568841	0.235745373	0.642126647
APP_h	3156.880733	-0.153058249	0.12963391	-1.180696073	0.237723482	0.642126647
Cd68	40.64837332	0.488367292	0.41890775	1.165811068	0.243690841	0.650140857
Nlrp3	10.5859416	-0.725724526	0.62585611	-1.15957089	0.246223559	0.650140857
Il1rn	6.485408147	0.789725003	0.693503276	1.138747329	0.254808556	0.65087786
Ccl11	9.681112864	-0.791984601	0.705900316	-1.121949633	0.261883856	0.65087786
H2Eb1	47.39582465	0.659638787	0.588209259	1.121435573	0.262102501	0.65087786
IL10rb	106.5379911	-0.235445986	0.211297712	-1.114285547	0.265156706	0.65087786
P2ry6	34.52673845	0.367088935	0.329913222	1.112683307	0.265844467	0.65087786
Tnf	2.623088044	-1.212914746	1.091973555	-1.110754689	0.266673955 NA	
Trem12	6.59670853	0.944296464	0.861809669	1.095713472	0.273204185	0.65087786
Casp8	35.85306863	0.389255261	0.355553683	1.094786188	0.273610319	0.65087786
Cxcl9	76.91839919	0.749720071	0.690960465	1.085040475	0.277903729	0.65087786
Plat	169.6599912	0.217977765	0.202042612	1.078870259	0.280645569	0.65087786
Trem11	2.745689612	1.099248538	1.018928995	1.07882742	0.280664669 NA	
Ide	185.0938011	-0.228319155	0.212874774	-1.072551485	0.283472402	0.65087786
B2m	2778.128103	0.495105716	0.462736191	1.069952438	0.284640718	0.65087786
Crh	32.47894871	-0.489278499	0.458288476	-1.067621213	0.285691411	0.65087786
Map2k6	42.94567021	0.326646524	0.309381405	1.05580529	0.291057181	0.65087786
Egr1	52.04247795	-0.416402395	0.395711034	-1.052289069	0.292666945	0.65087786
Cd33	16.08607508	0.529709406	0.503863626	1.051295189	0.293123036	0.65087786
Itgax	3.729260537	-0.899105832	0.855257958	-1.051268595	0.293135246	0.65087786
Itgam	58.7643004	0.516533101	0.498996148	1.035144466	0.300601449	0.65087786
Cfl1	1681.24713	-0.134058483	0.130066564	-1.030691355	0.30268558	0.65087786
Tnfsf1a	103.4842309	0.238121712	0.231678584	1.027810634	0.304038913	0.65087786
Card9	36.04870983	0.336494512	0.32752366	1.027389938	0.304236888	0.65087786
Il12a	5.16988072	0.873052414	0.854414384	1.021813807	0.306869033	0.65087786
Igf1	45.55120612	-0.357930263	0.352677541	-1.014893839	0.310156435	0.65087786
Pgk1	3035.80998	-0.141321707	0.139446883	-1.01344472	0.310847788	0.65087786
Bace1	365.3799489	-0.150465967	0.149124061	-1.008998588	0.312975312	0.65087786
Gapdh	8400.488752	-0.11189469	0.112937523	-0.990766283	0.321799717	0.662580346
GRN_h	3.559611368	1.037869271	1.052841457	0.985779258	0.324241446	0.662580346
Trem1	21.84435414	-0.456399264	0.471235155	-0.968517011	0.332786227	0.66847389
Eif2s1	207.6531903	-0.165179058	0.171091098	-0.965445073	0.334321935	0.66847389
Vwf	135.0111334	-0.301833205	0.313502577	-0.962777429	0.33565923	0.66847389
S100a9	54.53827016	0.422758622	0.44496088	0.950102899	0.342059971	0.670245183
Mafk	30.69890456	0.402396292	0.425486087	0.945733137	0.344284716	0.670245183
Casp1	28.1494098	0.371623936	0.396165148	0.938053077	0.348217134	0.670245183
Tardbp	437.6973295	-0.147183237	0.157746087	-0.93303891	0.350799879	0.670245183
Ece1	101.1018265	-0.216120652	0.231635383	-0.933020893	0.350809181	0.670245183
H2-Ea-ps	156.9035967	-0.756187153	0.819737969	-0.922474232	0.356281265	0.675210463
Pink1	698.3537904	0.14605467	0.168034707	0.869193469	0.384741319	0.72331368

Ptger4	13.97580854	0.475969773	0.567336773	0.838954561	0.401494808	0.744097957
Tgfb3	66.89987424	-0.222563322	0.267614855	-0.831655335	0.405603519	0.744097957
Cx3cr1	124.0992195	-0.580973494	0.701816226	-0.827814281	0.407775686	0.744097957
Gba	110.9234987	-0.172000947	0.208924657	-0.823267821	0.410355708	0.744097957
Tnfsf11	19.71552873	-0.501829755	0.611219071	-0.821030918	0.411628657	0.744097957
Ccr1	32.40356603	0.294237823	0.361934933	0.81295779	0.41624226	0.746669413
Sod1	2899.765646	-0.09939919	0.12422645	-0.800145142	0.423626709	0.751983916
Mmp9	15.97755784	0.357672285	0.449038555	0.796529119	0.425724558	0.751983916
Calb	154.1059021	-0.26490337	0.335475908	-0.789634558	0.42974122	0.751983916
Il7	9.570324492	-0.498270529	0.63410171	-0.785789601	0.43199076	0.751983916
Ptger1	3.826649087	0.728380576	0.940059576	0.774823846	0.438443757	0.757605021
Fcgr1	45.71263632	0.285952978	0.381177033	0.750184175	0.453143788	0.773399261
Ppp1r2	471.3484572	-0.129090788	0.172468944	-0.748487148	0.454166374	0.773399261
TARDBP_h	3.1420944	0.831956486	1.134751229	0.733162005	0.463459626	0.782286273
Ptgs2	27.14829829	-0.341091743	0.467933165	-0.72893261	0.466042886	0.782286273
Tlr8	3.06850258	-0.694523119	0.966436707	-0.71864315	0.47236082	0.787268033
Gls	583.883255	-0.113920942	0.161178027	-0.706801936	0.479689571	0.793664691
Csf1	152.3433474	-0.129743028	0.185981575	-0.697612265	0.485419709	0.793664691
Mmp11	17.17951772	-0.343248632	0.493062316	-0.696156695	0.486330704	0.793664691
Tyrobp	269.0420835	0.220530661	0.321006584	0.686997314	0.492084421	0.797516131
Crp	2.839884083	-0.671668898	0.982591056	-0.683569114	0.494247293	NA
Entpd1	54.96156414	-0.196678712	0.293834314	-0.669352431	0.503270688	0.798074519
Bsn	95.64058619	0.267992698	0.401253343	0.66788901	0.504204443	0.798074519
Ccl4	20.84590255	-0.386797109	0.580852983	-0.665912237	0.505467199	0.798074519
Il1a	4.611776947	0.596035865	0.907151357	0.657041254	0.511154391	0.798074519
Aqp4	949.8680406	-0.14662841	0.223280883	-0.656699347	0.511374255	0.798074519
Tlr9	9.217495408	0.409233197	0.625927705	0.653802658	0.513238954	0.798074519
Cxcl10	36.09345709	0.430268796	0.662755512	0.649211946	0.516201391	0.798074519
Trem14	17.66862837	-0.378086072	0.594778723	-0.635675179	0.524988157	0.802503373
Ccl3	20.28092565	0.358009117	0.574202301	0.62348952	0.532962887	0.802503373
Fos	39.82746028	0.201928956	0.324747409	0.621803133	0.534071326	0.802503373
Tnfrsf1b	6.524483684	0.424430852	0.685635391	0.619032881	0.535894698	0.802503373
Hspb2	19.811502	-0.241571722	0.394409266	-0.612489977	0.540213628	0.802503373
Il1r1	54.65914365	0.204363552	0.334977771	0.610080935	0.541808195	0.802503373
Arc	22.31475034	-0.29201309	0.48177095	-0.606124321	0.544432202	0.802503373
Ly96	38.21870869	0.234971992	0.389551774	0.603185527	0.546385275	0.802503373
Clu	5298.302556	-0.100976661	0.170561197	-0.592025988	0.553833186	0.806070747
Mapk8	284.2163151	-0.128663791	0.218341137	-0.589278743	0.555674302	0.806070747
Adam17	124.4796425	0.123894756	0.212542822	0.582916679	0.559949392	0.807289001
Tgfb1	34.01027417	0.202149948	0.355232193	0.569064268	0.569312526	0.810435451
Ccnd1	42.8871477	-0.252585847	0.44420011	-0.568630761	0.569606745	0.810435451
Tlr6	21.01319729	0.246725453	0.437141741	0.564406072	0.572477808	0.810435451
Cd163	28.08037039	0.225788678	0.411347033	0.548900709	0.583073591	0.819558173
Cxcr2	20.42140123	-0.218584785	0.41706886	-0.524097591	0.600210664	0.819558173
Stat6	67.55556278	0.153292721	0.292557336	0.523974968	0.60029595	0.819558173
Dock2	10.72704255	-0.312970953	0.603855179	-0.518288099	0.604257275	0.819558173
Tlr1	9.284370372	0.359171321	0.695100821	0.51671831	0.605352813	0.819558173
Stat3	341.4660603	0.097373297	0.188867858	0.51556309	0.606159595	0.819558173
Plg	16.5663441	-0.278818745	0.541515352	-0.514886132	0.606632592	0.819558173
Mpo	42.41776707	0.306012412	0.594642927	0.514615407	0.606821796	0.819558173
Mef2b	3.512013142	0.43924238	0.876818105	0.500950399	0.616406031	0.827745242
Cltc	3631.218697	-0.057770852	0.118473366	-0.487627333	0.625813832	0.834663877
Syp	811.2302683	-0.086522361	0.178908877	-0.483611335	0.628661729	0.834663877
Csf1r	130.3622671	-0.157716752	0.331318164	-0.476028086	0.634054369	0.837094251
Grin2a	82.85197237	-0.101817181	0.22609408	-0.450331035	0.652471765	0.856597009
Jak3	18.71362119	0.189921094	0.433423937	0.438187828	0.661250131	0.859541941
Cxcr4	34.87868155	0.243682948	0.565822216	0.430670519	0.666707958	0.859541941
Ctsd	2774.889069	0.071740194	0.169353297	0.423612621	0.67184835	0.859541941
Atp13a2	38.8490069	-0.143118886	0.338040946	-0.423377366	0.672019956	0.859541941
Mfn1	192.7199935	0.083542333	0.199877175	0.417968349	0.675970259	0.859541941
MAPT_h_ex1	6.053942943	0.385789418	0.925100702	0.417024241	0.676660677	0.859541941
Cxcl15	3.040577238	-0.451054183	1.110746085	-0.406082173	0.684682224	NA
Gfap	1818.02684	-0.090939561	0.225115365	-0.403968697	0.686235738	0.867018271
Hck	11.02257035	0.256688371	0.655736098	0.391450726	0.695464104	0.873978954
Tlr2	13.89391611	0.17478767	0.465340375	0.375612517	0.707204984	0.877498331

IL6ra	47.37062545	0.106343047	0.284750873	0.373459951	0.708806147	0.877498331
Fcgrt	128.6882536	-0.092779206	0.249795601	-0.371420498	0.71032436	0.877498331
ITM2b_h	3.86703571	0.365841365	1.006054829	0.36363959	0.71612716	0.877498331
Dlg4	303.9755288	-0.056955669	0.15838677	-0.359598655	0.71914729	0.877498331
Marco	25.32121385	0.198256094	0.556990039	0.355941902	0.721884075	0.877498331
Map2k4	943.1683369	0.047382502	0.135455861	0.349800312	0.726488565	0.877498331
Ly86	192.7761376	0.196881509	0.566394489	0.347604917	0.728136913	0.877498331
Serpina1a	350.1069493	-0.137165038	0.412112512	-0.332833956	0.739259625	0.886357204
Ccl7	25.22467325	-0.127542429	0.397238237	-0.321072891	0.748155153	0.886838886
Ptgsds	12310.12107	0.105371013	0.335900151	0.313697427	0.753750856	0.886838886
Snap91	831.2436929	-0.049029926	0.159487631	-0.307421496	0.758522568	0.886838886
Ubc	1179.009162	0.052725681	0.172290372	0.306028016	0.759583315	0.886838886
Itm2b	3558.995834	-0.0459977	0.151806903	-0.303001374	0.761888814	0.886838886
Lrrk2	56.7949121	-0.097249191	0.323248496	-0.300849632	0.76352916	0.886838886
Cxcl5	30.11348958	-0.178935062	0.601473681	-0.297494416	0.76608907	0.886838886
Igfbp2	211.1120549	-0.117689545	0.414098302	-0.284206781	0.776251919	0.886838886
C1s1	15.45931097	0.231172584	0.823146543	0.280840132	0.778833021	0.886838886
Bdnf	25.88418457	-0.125470357	0.448522692	-0.279741381	0.779675928	0.886838886
Ace	82.81591093	0.090915514	0.327280542	0.277790771	0.781172976	0.886838886
Aifm1	182.0824006	0.05103999	0.187337032	0.272450083	0.785275968	0.887210829
Tlr7	32.95475786	0.137459038	0.551324963	0.249324894	0.803109477	0.903017833
Ctsb	190.0199941	-0.042459659	0.184727989	-0.229849624	0.818208622	0.908676245
Hprt1	1596.964125	-0.031029372	0.138737738	-0.22365488	0.823025857	0.908676245
Masp2	3.453505113	0.219832051	0.985726719	0.223015209	0.823523669	0.908676245
SOD1_h	4.325624518	0.231401332	1.038111817	0.22290598	0.823608682	0.908676245
Arg1	23.14783947	0.116826315	0.560146613	0.208563816	0.83478876	0.916707283
APOE_h	3.759498009	-0.182230833	0.924643156	-0.197082336	0.843763106	0.922252697
Ptafr	14.7536887	0.085747074	0.461222122	0.185912751	0.852513183	0.927502768
Ccl17	13.34300592	0.092647563	0.656195107	0.141189049	0.887720597	0.957138898
C3	145.0121541	-0.061590986	0.453679062	-0.135758935	0.892011856	0.957138898
Tlr4	23.29699242	0.047485439	0.360362691	0.131771242	0.895165234	0.957138898
Trem2	60.46664707	0.043407286	0.332702646	0.130468714	0.896195605	0.957138898
Ifih1	29.87111195	-0.041594062	0.331393876	-0.125512465	0.900117857	0.957138898
MAPT_h_ex10	6.274858549	-0.078287549	0.675773275	-0.115848838	0.907772344	0.960930184
Ccl21b	3.760918574	0.101280844	0.919955398	0.110093211	0.912335452	0.961429737
Ifng	5.062862528	0.07775592	0.767990602	0.101245926	0.91935524	0.96450215
Ackr3	34.43441439	0.03085824	0.329130151	0.093756951	0.925302229	0.966426772
Axin1	33.18670191	-0.025310557	0.393559374	-0.064311914	0.948721867	0.982193232
Lyz2	129.3367445	0.011407351	0.188953737	0.06037113	0.951860052	0.982193232
Alox5	18.57257417	0.030351307	0.521338152	0.058218082	0.953574918	0.982193232
Prkcb	421.6214797	0.011262478	0.209444544	0.05377308	0.957115958	0.982193232
Ltbr	42.88683041	0.015364202	0.351306458	0.043734471	0.965116061	0.985763162
S100a11	337.6206824	0.011190521	0.287804893	0.038882317	0.968984215	0.985763162
Ubqln1	105.0272715	0.004343134	0.220431879	0.01970284	0.984280425	0.99109069
Limk1	289.6805036	0.004536493	0.239019508	0.018979591	0.984857387	0.99109069
Mbl2	2.280481042	0.022326652	1.271579773	0.0175582	0.985991303 NA	
Nos2	3.369637547	-0.010968419	0.916934088	-0.011962059	0.990455886	0.99109069
Il4	16.80863532	0.008378184	0.750303324	0.011166396	0.99109069	0.99109069

Supplementary Table 2: List of genes from NanoString codeset used to impute M1-, M2- and DAM-type immune profile

M1 signature	M2 signature	DAM signature
Ccl2	Arg1	ApoE
Ccl3	Chil3 (Ym1)	B2m
Cd68	Il10	Csf1
Ifng	IL4	Ctsb
Il1b	Tgfb1	Ctsd
IL6	Tgfb3	Itgax
Nos2		Lyz2
Tnf		Trem2
		TyrobP

Supplementary Table 3: Differential gene expression in spinal cord between homozygous M83 and non-transgenic mice

Base Mean=gene counts normalized to library depth; lfcSE=log (Fold Change) Standard Error; stat=Wald test statistics

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
SCNA_h	16832.80687	8.170713759	0.145300779	56.23310373	0	0
Scna	551.9144861	3.311700513	0.178576628	18.54498291	8.95E-77	9.89E-75
Serpina1a	191.7085641	4.943368854	0.455253776	10.85849062	1.82E-27	1.34E-25
SOD1_h	67.67994199	-5.736938639	0.561502031	-10.21712892	1.66E-24	9.18E-23
Ptgds	7177.22474	1.85848357	0.184525363	10.07169711	7.37E-24	3.26E-22
Gjc2	315.1958931	-1.689718258	0.193311775	-8.740896711	2.31E-18	8.52E-17
Limk1	368.3116851	-1.173682407	0.146565573	-8.007899674	1.17E-15	3.68E-14
H2-Ea-ps	101.29495	6.694603698	0.901391989	7.426961606	1.11E-13	3.07E-12
S100a8	129.9976343	3.497464848	0.512861196	6.819515453	9.13E-12	2.24E-10
Serpina3n	247.4349268	1.741805235	0.260016583	6.698823643	2.10E-11	4.64E-10
Ftl	401.3877729	1.093688716	0.170935508	6.398253531	1.57E-10	3.16E-09
Ubc	1408.131298	-1.054696379	0.177635306	-5.937425418	2.90E-09	5.33E-08
Pink1	746.5777756	-0.855546045	0.149255916	-5.73207461	9.92E-09	1.69E-07
S100a11	216.5307944	1.374243445	0.243609829	5.641165842	1.69E-08	2.67E-07
App	2196.89874	-0.666620021	0.12294915	-5.421916477	5.90E-08	8.69E-07
APP_h	3512.307587	-0.680107508	0.128570177	-5.289776571	1.22E-07	1.69E-06
Snap91	896.7041629	-0.697035259	0.134202507	-5.193906393	2.06E-07	2.68E-06
Dlg4	360.650091	-0.945728148	0.184000158	-5.139822467	2.75E-07	3.38E-06
Lyz2	81.29337046	1.508629587	0.297990705	5.062673311	4.13E-07	4.81E-06
Igfbp3	107.4077908	1.76228994	0.355887162	4.951822171	7.35E-07	8.12E-06
Ppp2ca	2001.150337	-0.611912119	0.125964623	-4.857809315	1.19E-06	1.25E-05
Cltc	3759.102924	-0.56462451	0.118099895	-4.780906104	1.75E-06	1.75E-05
C2	24.64643092	2.936644198	0.640411517	4.585558067	4.53E-06	4.35E-05
Mrc1	30.43328613	2.805655128	0.626787125	4.47624882	7.60E-06	7.00E-05
Serping1	25.58632651	2.868982747	0.647355854	4.431848004	9.34E-06	8.26E-05
Trf	10474.74524	-0.55668934	0.128357314	-4.337028584	1.44E-05	0.000122759
Lrp1	566.2657238	-0.611886325	0.145409323	-4.208026779	2.58E-05	0.000210859
Bace1	404.8843732	-0.667537044	0.161986443	-4.120943889	3.77E-05	0.000297816
Mapt_ex1	303.057969	-0.716139833	0.175595654	-4.078345998	4.54E-05	0.000345653
Hmox1	53.74427778	1.470708954	0.365333574	4.025660541	5.68E-05	0.000418542
Igf1	30.31122807	2.073412297	0.521759848	3.973882438	7.07E-05	0.000504097
Fcgr2b	57.11601421	1.238220275	0.338150694	3.661741041	0.000250507	0.001679516
Pgk1	3084.569401	-0.424728559	0.115999958	-3.661454423	0.000250787	0.001679516
C3	173.3493866	-0.938332168	0.261272569	-3.591391827	0.000328917	0.002137959
Bsn	101.0299229	-0.974105636	0.275590719	-3.534609725	0.000408378	0.002578614
Ece1	122.3386623	-0.830309743	0.236126738	-3.516373247	0.000437485	0.002685675
Syp	816.2057005	-0.461125556	0.135012786	-3.415421372	0.000636834	0.003803793
Tubb3	1493.228507	-0.525683811	0.154690623	-3.398291382	0.000678082	0.00394358
Ubqln1	116.5749302	-0.819487459	0.246546029	-3.323872063	0.000887769	0.005030692
S100a9	27.60991217	1.988652863	0.605807287	3.282649292	0.001028365	0.005681718
Ece2	342.6790774	-0.496098199	0.153537447	-3.231121838	0.001233054	0.00664646
Map2k4	895.8558269	-0.421047043	0.130970835	-3.21481528	0.001305285	0.006868285
Mapt_e9	57.75492694	-0.996202515	0.316531631	-3.147244752	0.001648169	0.008470824
Vwf	101.5271005	1.004310317	0.325215055	3.088142147	0.002014121	0.010116381
Cd36	35.24305784	1.966408735	0.640904947	3.068175312	0.002153702	0.010577071
Fcgr4	32.79813803	1.731137258	0.571557167	3.028808592	0.002455202	0.011795644
H2Eb1	21.14925237	2.375979159	0.79233299	2.998712903	0.002711227	0.012748533
Ppp1r2	483.5866223	-0.477162077	0.160609352	-2.970948273	0.002968818	0.013668932
C1ra	21.63475553	1.742964536	0.606341667	2.874558407	0.004045929	0.018247967
Dnm1l	547.3444049	-0.391886783	0.13685888	-2.863437022	0.004190721	0.018522987
Gfap	1948.747866	-0.628620116	0.220307497	-2.853375965	0.004325741	0.018744878
Stat6	42.47588209	1.139285801	0.408454124	2.789262573	0.005282822	0.022451992
Hprt1	1515.649519	-0.32691555	0.119792109	-2.729024071	0.006352207	0.02564728
Cxcl9	35.38025541	1.690802131	0.62036167	2.725510315	0.006420217	0.02564728

Cfl1	1643.888738	-0.311767855	0.114401628	-2.725204698	0.006426163	0.02564728
Cd163	15.13231943	2.041097061	0.749992815	2.72148882	0.006498858	0.02564728
Igfbp5	94.4112119	0.662821966	0.252792306	2.622002131	0.008741488	0.033870809
Mpo	22.52174356	1.971208038	0.754645844	2.61209686	0.008998875	0.033870809
Mapk8	287.7355335	-0.414754741	0.158948158	-2.609371162	0.00907088	0.033870809
Prkcb	423.0504557	-0.537987268	0.206545464	-2.604691758	0.009195695	0.033870809
Ccl5	7.624058467	2.85716738	1.126912012	2.535395265	0.011232051	0.040579498
C1qa	217.7239149	0.701361929	0.277763614	2.525031698	0.011568785	0.040579498
B2m	1495.04158	1.285557041	0.509139619	2.524959741	0.011571154	0.040579498
Zbp1	11.63776236	1.918925358	0.761623682	2.519519027	0.011751529	0.040579498
Mmp9	19.18729103	-1.326096287	0.528737664	-2.508042035	0.012140222	0.041276756
Ccl19	16.20575406	1.543636658	0.618004364	2.497776306	0.012497503	0.041847699
Grin2a	87.98988819	-0.620068073	0.252850346	-2.452312538	0.014194132	0.046817442
Ms4a6d	24.35410604	1.208626676	0.493923241	2.446992923	0.014405367	0.046817442
Tnfsf11	13.70557618	1.792050918	0.736018215	2.434791532	0.014900371	0.047724378
Tardbp	440.5455382	-0.388380867	0.160709794	-2.4166596	0.015663658	0.049452405
Fcgrt	98.57220111	0.60169015	0.254262689	2.3664115	0.017961468	0.055908231
Adam17	120.5300511	-0.539283937	0.228981753	-2.355139352	0.018515761	0.056833099
Apoe	6439.702315	-0.272513486	0.116087206	-2.347489411	0.01890041	0.057219051
Sod1	2778.195675	-0.285198675	0.123376807	-2.311606876	0.020799357	0.062117
Map2k6	41.64077416	-0.807787573	0.351819306	-2.296029694	0.021674184	0.063866594
Ccl11	6.826978397	2.704764853	1.232630703	2.194302679	0.028213657	0.081443358
Tgfb3	75.95893296	-0.652322133	0.297585983	-2.1920459	0.028376193	0.081443358
Mfn1	182.6115942	-0.455122615	0.208364115	-2.184265822	0.028942721	0.082004375
P2ry6	19.87870079	1.229648634	0.571044354	2.153332969	0.031292519	0.087539833
Cat	542.003672	-0.375179995	0.174997452	-2.143916905	0.032039545	0.088509244
Arc	28.23195534	-0.967378044	0.45559534	-2.123327346	0.033726431	0.091168748
Ctsd	2467.524839	-0.235102444	0.110786379	-2.122124099	0.033827318	0.091168748
Gls	573.5314787	-0.353339346	0.169706714	-2.082058736	0.037337105	0.099415665
Cxcr2	14.12644643	1.382134749	0.666891325	2.072503716	0.03821849	0.099437764
Hspb2	13.54617795	1.541686685	0.743979691	2.072216088	0.038245294	0.099437764
IL6ra	31.57382726	0.855351787	0.420141389	2.035866519	0.041763761	0.107323152
Ccl7	17.26462058	1.180749424	0.584082143	2.021546863	0.043223186	0.10979683
Aifm1	174.2078758	-0.440965995	0.221812874	-1.988009018	0.046810693	0.117345145
Cd55	109.8327142	0.835556247	0.42114883	1.983992803	0.047256642	0.117345145
Masp2	5.435618255	-1.914729807	0.987296338	-1.939366869	0.052456682	0.128810296
Casp8	21.47352773	0.974097346	0.525124121	1.854984958	0.063598375	0.152852846
Fcgr3	38.2105756	0.708442436	0.381959869	1.854756202	0.063631049	0.152852846
Stat3	306.7519221	-0.311109558	0.1746556	-1.781274452	0.074867626	0.17791124
Ccr1	19.99209853	0.908525597	0.524739789	1.731383089	0.083383461	0.196039839
Ly86	133.5121134	0.563700319	0.327314027	1.72220031	0.085033239	0.197814166
Tlr7	20.82497919	1.073592106	0.630600457	1.702491798	0.088663215	0.204110109
C1s1	9.414461744	1.346719114	0.800861052	1.681588973	0.09264857	0.211085918
C3ar1	25.13796422	0.867515439	0.524606037	1.653651271	0.098198389	0.221447387
Ccnd1	48.6291091	-0.598500769	0.365494177	-1.637511093	0.101523723	0.226633765
Ccl21b	5.553062117	-1.656138813	1.016173542	-1.629779506	0.103148107	0.227957316
Tyrobp	195.7146895	0.312043209	0.195819308	1.593526259	0.111042182	0.242973488
Csf1	149.9672132	-0.351346755	0.221399594	-1.586934957	0.112527377	0.243809316
LRRK2_h	19.76827858	0.883688279	0.564504885	1.565421846	0.117484029	0.252077383
Ide	189.4454331	-0.347807144	0.227673141	-1.527659967	0.126596985	0.268522942
Ace	79.68512021	-0.514717744	0.337803456	-1.523719592	0.127578773	0.268522942
Myl2	28.28987771	2.579495615	1.721277272	1.498593896	0.133979017	0.279333611
Clu	4950.778411	-0.200465808	0.134616176	-1.48916582	0.136443709	0.281813642
Calb	157.8278431	-0.319412638	0.215936408	-1.479197696	0.139087485	0.284057987
Ptgs2	20.83009553	0.91122323	0.619397634	1.47114419	0.141252127	0.284057987
Axin1	34.64509211	-0.670725794	0.456471159	-1.469371681	0.141732004	0.284057987
Ccl2	10.73390245	1.045401262	0.713139453	1.465914216	0.142671659	0.284057987

Tlr6	13.23899156	1.007808754	0.707122148	1.425225836	0.15409193	0.300915551
Cx3cr1	140.3520798	-0.329619908	0.231593685	-1.423268116	0.154658446	0.300915551
C1qb	309.7404124	0.310621569	0.218544247	1.421321189	0.155223406	0.300915551
Cxcl5	22.15726799	0.79280397	0.572533967	1.384728271	0.166135571	0.319269228
Cxcl10	22.35991372	0.730732387	0.53027081	1.378036229	0.168192103	0.320434954
Trem2	45.51483432	0.479282112	0.354974793	1.350186328	0.176956222	0.334250642
Ccl4	15.98951828	0.969079784	0.727875218	1.331381754	0.18306343	0.342856085
Adam10	443.7494934	-0.213697803	0.161674422	-1.321778673	0.186241862	0.345877744
Itgax	2.947336264	1.942483241	1.47243537	1.319231581	0.187091703	NA
Tlr4	16.0243138	0.785514557	0.598383642	1.312727323	0.189274847	0.346355885
Igfbp2	173.6833261	0.300754321	0.22929232	1.3116633	0.189633765	0.346355885
Flii	223.760153	-0.240422082	0.184666891	-1.301923047	0.192942693	0.349510944
Eif2s1	200.8619943	-0.235974319	0.182777113	-1.291049608	0.196686476	0.353396026
Tnfsf9	4.99069777	-1.23201105	0.978591108	-1.258964075	0.208043308	0.367866558
Mmp2	37.42215025	0.498344626	0.395859693	1.258892066	0.20806932	0.367866558
Marco	16.87389813	0.719849025	0.576268882	1.249154773	0.21160847	0.371154539
Cd68	25.06931553	0.585925868	0.472008913	1.241344924	0.214478356	0.373226115
Atp13a2	40.36251813	-0.49645125	0.41163744	-1.206040077	0.227802038	0.391446013
Ccl3	12.14955493	0.820812224	0.681593484	1.204254799	0.228491111	0.391446013
Ctsb	177.204747	-0.246988816	0.208029958	-1.187275228	0.235119076	0.399702429
Il10rb	89.83963178	0.33900868	0.290988305	1.165025102	0.244008832	0.409829468
Trem1	17.94692973	0.668876259	0.575075845	1.16310964	0.244785022	0.409829468
Ptprc	19.83045719	0.648618536	0.561896323	1.154338459	0.248361435	0.412690806
Crh	27.70898389	0.555220688	0.484701691	1.14548948	0.252006451	0.415622579
Bdnf	27.06112498	-0.494697045	0.436989227	-1.132057758	0.257610153	0.421717361
Ccl8	5.257021038	1.274627335	1.139502402	1.118582403	0.263318334	0.427892293
Mef2c	99.68049373	-0.262257473	0.23867797	-1.098792119	0.271858751	0.438545868
Fos	35.22356523	-0.417829285	0.382205815	-1.093204938	0.274303829	0.439283669
Lrrk2	56.65083977	-0.385464253	0.355544595	-1.08415163	0.278297574	0.441685874
Nlrp3	9.098592334	0.876463999	0.810965201	1.080766472	0.279801006	0.441685874
Arg1	15.75262126	0.660895138	0.61846341	1.068608307	0.285246204	0.447088021
Ptger1	3.824300835	-1.281037354	1.204793054	-1.063284146	0.287653113	0.447685478
Myc	20.152012	-0.52900663	0.507793047	-1.041776041	0.297515524	0.45979672
C4a	472.0131281	-0.532386225	0.530867026	-1.00286173	0.31592758	0.484861077
Ifih1	22.79110323	0.513773963	0.524563469	0.979431458	0.32736684	0.496011017
P2ry12	153.6963153	-0.214196294	0.21883682	-0.978794584	0.327681486	0.496011017
MAPT_h_ex1	3.245298758	1.385301184	1.415799145	0.978458837	0.327847441	NA
Tgfbfr1	143.8234157	0.19537934	0.206838405	0.94459895	0.344863663	0.518468501
GRN_h	2.876445238	-1.205608574	1.28306122	-0.939634489	0.347405079	NA
Msr1	6.390367524	0.878097812	0.936151012	0.937987355	0.348250908	0.520023316
Plg	13.05582922	0.608699916	0.679032077	0.896422919	0.370026931	0.548831892
Mef2b	3.611741276	-1.041287707	1.171479024	-0.888865857	0.374075177	NA
Abca1	144.7153889	-0.185676079	0.210686885	-0.881289213	0.378161303	0.552498491
Sox10	173.1788479	-0.185019051	0.211170157	-0.876160979	0.380942526	0.552498491
Itgam	38.15112747	0.338624931	0.387794004	0.873208268	0.382549569	0.552498491
MAPT_h_ex10	7.129635318	-0.716090507	0.826458551	-0.866456649	0.38623979	0.552498491
Ackr3	26.2008251	0.410743552	0.47410923	0.866347936	0.386299386	0.552498491
Ccl17	12.45967453	-0.53827014	0.622881106	-0.864161932	0.387498941	0.552498491
Th	10.2026853	0.653909054	0.770411442	0.848779	0.396004277	0.56100606
Egr1	54.86254172	-0.303589743	0.373110541	-0.813672382	0.41583266	0.585344062
Ncf1	30.83522444	0.329533214	0.416655508	0.790900894	0.429001826	0.600059517
Il12a	3.957208592	-0.87926295	1.12981417	-0.778236787	0.436429433	0.606609464
Il1rn	3.380245781	0.938999538	1.244329807	0.754622715	0.45047539	NA
Chil3	3.541800182	0.953993835	1.26536329	0.753928806	0.450891972	NA
Igfbp4	133.1702533	-0.169658548	0.23166914	-0.732331236	0.463966419	0.640853616
Gapdh	7591.996137	-0.076305815	0.106404855	-0.717127193	0.473295618	0.649679079
Ctsc	68.32087438	0.224164323	0.317462546	0.706112661	0.480118079	0.653679334

Grn	255.6359105	-0.137862373	0.196700315	-0.700875205	0.483380899	0.653679334
Tgfb1	29.69575508	-0.315034509	0.451241779	-0.698150136	0.485083307	0.653679334
Prph	258.9469802	-0.256605704	0.370245737	-0.693068626	0.488266486	0.653981172
Alox5ap	18.22681665	-0.357197641	0.523114456	-0.682828846	0.494715	0.658626596
Ptpn6	25.58409619	0.333816251	0.497186204	0.67141093	0.501958784	0.66426881
TARDBP_h	2.353536372	-0.891539149	1.382705972	-0.644778548	0.519070706	NA
Maff	7.389834769	0.557846778	0.878357738	0.635102025	0.525361877	0.689822116
Tlr8	2.57132713	0.902375312	1.430179609	0.630952439	0.528071623	NA
Tlr1	8.328035141	-0.53729939	0.857305126	-0.626730639	0.530835816	0.689822116
Mmp3	3.699787913	0.748978881	1.199525775	0.624395821	0.532367669	0.689822116
Cebpd	9.194660963	-0.469111471	0.757526236	-0.619267622	0.53574007	0.689822116
Csf1r	113.3547657	0.145101976	0.236344623	0.613942362	0.539253416	0.689822116
Dock2	9.324058641	0.453441179	0.751797762	0.603142496	0.546413898	0.689822116
Itgb2	36.40840346	0.235535005	0.391339019	0.601869463	0.547261033	0.689822116
Cd14	13.20212413	-0.379215429	0.635703624	-0.596528657	0.550822115	0.689822116
Fcer1g	24.09275392	0.278964437	0.468114328	0.595932275	0.551220471	0.689822116
Crp	2.448997565	0.840813351	1.43750269	0.584912541	0.558606526	NA
Npy	140.4071794	-0.135967025	0.232494254	-0.584818863	0.558669519	0.689822116
Crhr1	36.20544386	-0.220360137	0.378110041	-0.582793667	0.560032209	0.689822116
Fcgr1	32.97114039	0.279434541	0.480556036	0.5814817	0.560915848	0.689822116
Ptafr	10.92563295	0.433818905	0.747832557	0.580101656	0.561846067	0.689822116
Tnfsf1a	76.73768768	0.165947942	0.288689627	0.574831677	0.565405141	0.690356554
Mertk	59.96106761	-0.173298949	0.305805297	-0.566697017	0.570920048	0.693260058
Il1b	3.137826598	0.783645113	1.387881542	0.564634005	0.572322731	NA
Hspb1	221.8170085	0.107376264	0.193729281	0.554259344	0.57940137	0.699714223
Gusb	52.46634121	-0.177569527	0.335984565	-0.528505014	0.597148868	0.717227717
Ms4a4a	4.119359355	0.651989479	1.309977342	0.497710501	0.618688105	0.738116016
Il4	12.67159836	0.330734154	0.669336636	0.494122294	0.621219814	0.738116016
Ccr4	11.52524151	0.396107503	0.811937249	0.487854823	0.625652676	0.739407708
APOE_h	3.084753879	0.651344703	1.343410346	0.484844191	0.627786873	NA
Timp1	7.681766968	-0.392758086	0.864431287	-0.454354316	0.649573828	0.758835353
Tubb5	792.0450307	-0.063737864	0.140657932	-0.453140917	0.650447274	0.758835353
Trem14	15.34347474	0.257078567	0.579841635	0.443359964	0.657505389	0.758835353
Cfb	6.672617311	-0.40369562	0.914415314	-0.441479505	0.658865896	0.758835353
Cxcr4	25.20989567	0.207781433	0.471228606	0.440935527	0.659259673	0.758835353
Hck	7.983519811	0.358197679	0.839837349	0.426508394	0.669737433	0.766901413
Il1r1	41.16806211	0.154833385	0.387553513	0.399514853	0.689513882	0.785477154
Plat	137.1052242	-0.096598428	0.249138579	-0.387729706	0.69821607	0.791311546
Entpd1	52.25559796	-0.132912443	0.350620989	-0.379077257	0.704630494	0.794506833
Mafk	20.91751111	0.176814537	0.492570625	0.358962812	0.719622909	0.807292705
Il1a	3.645849763	-0.404622015	1.197769245	-0.337812994	0.735504117	0.81647426
Gba	102.7608173	-0.08712763	0.260548894	-0.334400306	0.738077508	0.81647426
Tlr2	10.3457675	0.232027128	0.697248861	0.332775198	0.739303981	0.81647426
Ifng	4.616612105	-0.351853455	1.071313534	-0.328431821	0.742585186	0.81647426
Cd33	10.43424752	0.232027896	0.740041181	0.313533763	0.753875174	0.820210356
Casp1	22.1655785	-0.179660751	0.579221483	-0.310176255	0.756426926	0.820210356
Jak3	14.09371413	0.189229128	0.611860235	0.309268551	0.757117252	0.820210356
Mmp11	16.86200501	-0.155839728	0.565903955	-0.275381938	0.783022819	0.844136796
Aqp4	860.9740772	-0.040048935	0.150731304	-0.265697529	0.790472166	0.848030819
Ptger4	10.13487136	-0.186098024	0.718029298	-0.259178873	0.795497231	0.849298976
Cxcl15	3.188572815	-0.361897294	1.399389657	-0.258610811	0.795935541	NA
Fcrls	26.85689994	0.113524809	0.449888252	0.252340016	0.800778261	0.850826902
Trem11	1.324643607	0.446803714	1.835141492	0.243470989	0.807640557	NA
IL6	6.103069055	0.214686305	0.939683383	0.228466639	0.819283488	0.865540215
Ly96	28.56767125	0.10251088	0.456856006	0.224383347	0.822459028	0.865540215
C5ar1	8.97494579	0.16102236	0.784255224	0.205318824	0.837323038	0.873898693
Creb1	103.8084728	0.051723039	0.253475235	0.20405559	0.838310058	0.873898693

Itm2b	3060.489289	0.023653192	0.120071602	0.196992391	0.843833492	0.875526769
Tnfrsf1b	4.970493371	-0.188273743	1.01059899	-0.18629916	0.852210166	0.8800862
Mbl2	1.876805606	-0.272269617	1.55824363	-0.174728529	0.86129295 NA	
FTL_h	5.718376902	0.171257527	1.00134266	0.171027895	0.864201832	0.885917741
Ltbr	36.66906553	-0.065917559	0.390272881	-0.168901203	0.865874353	0.885917741
Il10	2.038360007	-0.218773723	1.48770794	-0.147054215	0.883089228 NA	
Trem12	3.389179665	0.183454044	1.265797501	0.14493159	0.884764885 NA	
Tlr9	7.182794591	-0.108531547	0.820539515	-0.132268519	0.894771906	0.911265398
Nos2	2.985984958	-0.154191075	1.343861986	-0.114737285	0.90865336 NA	
Alox5	15.73066783	-0.062744532	0.603962272	-0.103888164	0.9172581	0.929880918
Mme	69.94092337	0.028943873	0.321102545	0.090139034	0.92817673	0.93665323
Card9	27.26259559	-0.037995941	0.448785867	-0.084663853	0.932528634	0.9367674
Il7	9.455494477	0.023379813	0.79854562	0.029277993	0.976642879	0.976642879
ITM2b_h	2.730324383	-0.032621323	1.33472671	-0.024440451	0.980501283 NA	
Tnf	3.132971244	-0.024933689	1.324700741	-0.018822129	0.984983 NA	

Supplementary Table 4: Overlapping gene expression changes in Il-10 expressing homozygous M83 mice vs aged, paralyzed homozygous M83 mice

Base Mean=gene counts normalized to library depth; lfcSE=log (Fold Change) Standard Error; stat=Wald test statistics

Il-10 expressing homozygous M83 mice

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
Fcgr2b	243.50367	2.199739729	0.277773	7.919187	2.39E-15	2.81E-13
Fcgr4	118.16825	1.785232879	0.43249	4.127801	3.66E-05	0.002152
Ms4a6d	62.848231	1.284898175	0.325842	3.943311	8.04E-05	0.003777
Ccl5	44.787646	2.47553824	0.65639	3.771443	0.000162	0.006357

Aged, paralyzed homozygous M83 mice

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
Fcgr2b	57.116014	1.238220275	0.338151	3.661741	2.51E-04	1.68E-03
Fcgr4	32.798138	1.731137258	0.571557	3.028809	2.46E-03	0.011796
Ms4a6d	24.354106	1.208626676	0.493923	2.446993	1.44E-02	0.046817
Ccl5	7.6240585	2.85716738	1.126912	2.535395	0.011232	0.040579

Supplementary Table 5: Differential gene expression in spinal cord between IL-10-injected vs GFP-injected hemizygous M83 transgenic mice
Base Mean=gene counts normalized to library depth; lfcSE-log (Fold Change) Standard Error; stat=Wald test statistics

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
C1qa	408.1870973	1.259016141	0.206992467	6.082424936	1.18E-09	2.72E-07
Il10	3106.858481	10.53761631	1.80346376	5.842987558	5.13E-09	5.90E-07
Ptgsd	10889.65285	-1.17033923	0.216663426	-5.401646463	6.60E-08	5.06E-06
C4a	735.3011699	1.326245368	0.256591158	5.168710331	2.36E-07	1.36E-05
C1qb	555.3733337	1.174757675	0.253688244	4.63071389	3.64E-06	0.000167627
Fcgr2b	197.1973481	1.251605018	0.277198999	4.515185929	6.33E-06	0.000242501
Ccl8	48.26045983	2.986870228	0.741140425	4.030100269	5.58E-05	0.001831886
Itgam	74.99031832	1.443786428	0.383160029	3.768102934	0.000164493	0.00472917
Ly86	253.758417	0.82465312	0.223401746	3.691345903	0.000223071	0.005700691
Ctsc	111.168607	0.904862556	0.252399852	3.585035995	0.000337032	0.00775173
Trem2	70.71441104	1.009838394	0.310389233	3.253458202	0.001140095	0.023838349
Ccr4	14.61058246	-2.195352196	0.723863957	-3.032824298	0.002422766	0.046436352
Il4	14.76007042	-1.964626615	0.669530886	-2.934333064	0.003342653	0.059139247
B2m	2164.991529	1.039262354	0.362739554	2.865037305	0.004169601	0.068500591
Igfbp2	256.057837	-0.693075868	0.253345051	-2.735699257	0.006224789	0.088806399
C3ar1	42.8424141	0.980525343	0.359375378	2.72841548	0.00636394	0.088806399
Fcgr4	60.81914194	0.975838126	0.360405124	2.707614459	0.00677687	0.088806399
Plg	14.02151282	-1.789572427	0.663331789	-2.69785416	0.006978801	0.088806399
Ptgs2	24.44040547	-1.183836041	0.441534532	-2.681185631	0.007336181	0.088806399
Ccl5	25.2491704	2.149564626	0.816984431	2.631096194	0.008510994	0.097876433
Tnfsf11	17.37017343	-1.37146344	0.539584266	-2.541703911	0.011031358	0.120819634
Igf1	52.06466676	-0.941445056	0.378450591	-2.487630034	0.012859743	0.132229583
Fcgrt	136.2603715	-0.608984519	0.246928318	-2.466240097	0.013653978	0.132229583
Ccl3	16.17533245	-1.505750593	0.611476532	-2.462483047	0.01379787	0.132229583
Tyrobp	328.7432756	0.488031686	0.204557303	2.385794488	0.017042272	0.154271252
Cx3cr1	172.1124041	0.575373117	0.24202682	2.377311394	0.017439359	0.154271252
Zbp1	28.49939952	1.527671079	0.647028152	2.361058128	0.018222874	0.15523189
Egr1	76.82402032	-0.822285527	0.356125005	-2.308980038	0.020944689	0.172045659
Ctsd	3059.272763	0.411804872	0.180953516	2.2757495	0.022861007	0.180584321
Cxcl5	25.76778247	-1.280204506	0.565381589	-2.26431941	0.023554477	0.180584321
Cd163	24.10118181	-0.988015473	0.441665067	-2.237024267	0.025284754	0.18565011
Fcrls	57.73952698	1.015382792	0.455581022	2.228764463	0.025829581	0.18565011
Fcgr3	53.13111747	0.749830777	0.341977066	2.192634683	0.02833371	0.197477374
Fcgr1	49.11483131	0.810599829	0.372227592	2.177699469	0.029428418	0.199074595
Cxcr2	20.70283823	-1.277257232	0.591762145	-2.158396313	0.030897032	0.20085836
Ccl4	10.26387565	-1.470917033	0.683678312	-2.151475345	0.0314387	0.20085836
C3	175.3044766	0.733531994	0.345100766	2.12555887	0.033540007	0.208491937
Vwf	151.3719857	-0.762534544	0.361164259	-2.11132338	0.034744526	0.208680063
MAPT_h_ex1	8.378165554	-1.77068795	0.843607536	-2.098947525	0.035821527	0.208680063
Crh	21.00186902	-1.014701824	0.48465949	-2.093638616	0.036292185	0.208680063
Igfbp5	193.5542753	-0.7305549	0.358326709	-2.038795549	0.041470437	0.232639035
Ptprc	44.63115438	0.755290015	0.377314505	2.001751869	0.045311425	0.248133993
Cd68	38.14499063	0.747911263	0.382117362	1.95728155	0.050314375	0.265676347
Cd55	155.4823852	-0.991901629	0.510681961	-1.942307943	0.052099832	0.265676347
Tlr9	12.72434494	1.188912539	0.61929025	1.919798574	0.054883347	0.265676347
Mmp2	43.12178163	-0.856110715	0.446280296	-1.918325149	0.055069795	0.265676347
Th	13.88526834	-1.654217208	0.866409117	-1.909279549	0.056226039	0.265676347
Il1r1	52.22696356	-0.682207445	0.357722055	-1.907088016	0.056509191	0.265676347
Cd36	33.80906179	-0.988496619	0.518519594	-1.906382381	0.056600613	0.265676347
Ptpn6	48.85914991	0.684546265	0.36314576	1.885045459	0.059423701	0.273349023
P2ry12	128.6627708	-0.544330964	0.295310225	-1.843251327	0.065292324	0.294455579
Arg1	20.20261919	-0.893515946	0.494369019	-1.807386611	0.07070202	0.312720474
ITM2b_h	3.278552875	-2.139803397	1.212075432	-1.765404479	0.077495811	NA
S100a11	362.4622866	-0.541092118	0.308566151	-1.753569266	0.079504341	0.345018839
Trem14	14.30325112	-0.97519144	0.567080064	-1.719671527	0.085492166	0.361282945
Tnfrsf1b	9.675980806	-1.260401083	0.735041146	-1.714735414	0.086393748	0.361282945

Grn	361.1612043	0.371134269	0.218496987	1.698578426	0.089398644	0.367173003
Hck	11.59265787	1.081566495	0.661986639	1.633819222	0.102296815	0.412776622
Masp2	6.162967503	1.473187984	0.916922525	1.606665715	0.108127718	0.424927823
Il1b	10.53051442	1.134819231	0.708368886	1.602017329	0.109151777	0.424927823
Fos	44.23460379	-0.595471347	0.373481223	-1.59438095	0.110850737	0.424927823
Ackr3	32.387154	-0.656370445	0.416699331	-1.575165585	0.115218229	0.429080006
Tlr7	19.32924657	-0.850226031	0.540432615	-1.573232272	0.115665045	0.429080006
Csf1r	152.103514	0.35542834	0.227809762	1.560198023	0.118713093	0.433397005
Fcer1g	48.840242	0.61443241	0.396593931	1.549273356	0.121316022	0.435979454
Ms4a6d	44.97626123	0.667450328	0.437221143	1.526573769	0.126867034	0.44891412
Tgfb1	159.5500412	-0.33028843	0.221815387	-1.48902398	0.136481054	0.475615795
Ccl21b	5.345623944	-1.471813019	0.997489511	-1.475517288	0.140073524	0.48084941
Cxcr4	34.88531195	-0.606392285	0.41453326	-1.462831438	0.143513508	0.485413337
Trem1	18.99334743	-0.922167581	0.636235982	-1.449411234	0.147222773	0.490742577
Tlr1	8.962257006	1.025747551	0.722659705	1.419406042	0.155780672	0.51185078
Lrp1	785.0355534	0.397773207	0.282034941	1.410368537	0.158430891	0.513226829
Il6	4.582405507	-1.301024294	0.951855432	-1.36682972	0.171678685	0.545250259
Cxcl9	43.87238718	0.959206181	0.705232238	1.360128096	0.173789392	0.545250259
Ubc	1758.544479	0.268069484	0.197842201	1.354966143	0.175428344	0.545250259
Ccr1	23.84170261	-0.681075914	0.530491907	-1.283857314	0.199191885	0.60570649
Ccl2	29.43779217	0.721775931	0.56338818	1.281134316	0.200146492	0.60570649
Gfap	2246.378396	0.383427785	0.303651897	1.262721521	0.206689277	0.614265352
Ccl7	22.79746325	-0.663146097	0.527055476	-1.258209291	0.208316076	0.614265352
Prph	267.5675747	-0.717893754	0.584341937	-1.2285508	0.219240272	0.636678374
Itgb2	61.82257044	0.474118875	0.387772525	1.222672686	0.221453348	0.636678374
Ltbr	45.55400207	-0.421237512	0.35600942	-1.183220128	0.236721918	0.672173347
Stat3	359.0998586	0.29093974	0.248362752	1.171430648	0.241425719	0.6771697
C1ra	52.10397689	0.558813486	0.481920893	1.159554387	0.246230281	0.682324876
Chil3	14.55504297	-0.792654678	0.723728966	-1.095236911	0.273412859	0.748630447
Ccl19	37.77808256	-0.563570307	0.518319874	-1.087302138	0.276903304	0.749267764
Aqp4	1026.216996	0.226204115	0.210752344	1.073317197	0.283128822	0.75351775
Ifng	5.822568491	0.946537227	0.885361991	1.069096298	0.285026279	0.75351775
Mme	70.6691849	-0.308511783	0.294443075	-1.047780739	0.294739639	0.75680817
H2Eb1	41.13993097	0.570365053	0.545535767	1.04551358	0.295785667	0.75680817
Serpina1a	179.986284	-0.410275254	0.394325213	-1.04044895	0.29813137	0.75680817
Mapt_ex1	332.5289835	0.244522985	0.235650622	1.0376505	0.299432798	0.75680817
Gjc2	277.5029816	0.407933165	0.400869706	1.017620336	0.308858419	0.759918905
Eif2s1	188.4707293	-0.298012648	0.296102985	-1.006449321	0.314199479	0.759918905
Gusb	76.55387484	0.28451668	0.283375002	1.004028858	0.315364704	0.759918905
IL10rb	116.8336258	-0.250379786	0.251242608	-0.996565784	0.318975321	0.759918905
Ncf1	51.81428391	0.380374859	0.389357443	0.976929723	0.328603946	0.759918905
Limk1	406.4101689	0.29557768	0.305636211	0.967089857	0.333499116	0.759918905
H2-Ea-ps	51.9095377	1.462690904	1.512701006	0.966939863	0.333574097	0.759918905
Cebpd	8.728360017	-0.708883237	0.736625397	-0.962338849	0.33587942	0.759918905
Atp13a2	36.40759056	0.374344163	0.394093228	0.949887327	0.342169507	0.759918905
Prkcb	444.6138436	0.282571783	0.298887992	0.945410289	0.344449451	0.759918905
Dlg4	370.5296313	0.248413792	0.263260427	0.943604759	0.345371659	0.759918905
Cxcl15	4.010491729	-0.94981386	1.008685822	-0.941634986	0.346379551	0.759918905
Cd14	17.5919848	0.532437096	0.571507992	0.931635434	0.351524964	0.759918905
App	2350.635578	0.213054986	0.229110752	0.929921377	0.352411794	0.759918905
S100a9	105.3488854	-0.554306128	0.600728832	-0.922722696	0.356151735	0.759918905
Il1rn	6.477076287	0.779212876	0.84533948	0.921775091	0.356645903	0.759918905
Crp	4.317121584	-0.908912015	0.986425921	-0.921419435	0.356831486	0.759918905
Casp1	29.11867486	0.44441423	0.493917477	0.899774256	0.368240397	0.777021021
SOD1_h	2.919338555	-1.146088226	1.307555687	-0.876511981	0.380751766	NA
Sod1	2697.747848	-0.179388222	0.205736943	-0.871930042	0.383246543	0.800227917
LRRK2_h	18.99048417	-0.448215593	0.520962026	-0.860361351	0.389589884	0.800227917
Mapt_e9	54.0456452	0.280894802	0.330646694	0.849531561	0.395585576	0.800227917
Ccl11	12.30842342	-0.760654115	0.902157724	-0.843149812	0.399144663	0.800227917

APP_h	3773.913389	0.178667912	0.215077542	0.830713941	0.406135249	0.800227917
IL6ra	34.38456053	-0.326810381	0.395425233	-0.826478318	0.408532813	0.800227917
Hprt1	1539.437356	-0.153535749	0.186118432	-0.824935753	0.409408067	0.800227917
Dock2	10.99728816	0.520141313	0.634619956	0.819610711	0.412438065	0.800227917
Grin2a	94.1457068	0.343743451	0.419898359	0.8186349	0.412994749	0.800227917
Creb1	104.7440298	-0.214037655	0.262037538	-0.816820586	0.414030966	0.800227917
Tnfsf9	4.293391396	-0.750839135	0.954786432	-0.786394852	0.431636199	0.827302714
Mfn1	192.3549081	0.185849398	0.23935239	0.776467693	0.437472889	0.831560037
C2	50.78237511	0.395107967	0.520825341	0.758618937	0.448080541	0.844742004
Adam10	473.7963142	-0.161684456	0.217591076	-0.743065657	0.45744193	0.846644052
Il7	9.623369464	-0.495123539	0.667086768	-0.742217598	0.457955508	0.846644052
Msr1	11.16893388	0.494899869	0.670025452	0.738628461	0.460132637	0.846644052
Timp1	21.79527694	0.485684848	0.6656387	0.729652359	0.465602709	0.84748171
Cfl1	1682.409834	-0.148397902	0.207506498	-0.715148218	0.474517462	0.84748171
Cat	584.3194363	-0.16609863	0.236717345	-0.701674946	0.482881901	0.84748171
Scna	548.2017076	0.122825418	0.17531146	0.700612602	0.483544812	0.84748171
Ide	188.3006696	-0.149326254	0.214149468	-0.697299207	0.485615564	0.84748171
Bsn	131.663783	0.228641646	0.329129186	0.694686632	0.487251707	0.84748171
Igfbp3	192.2393994	-0.224511676	0.324289882	-0.692317856	0.488737739	0.84748171
Mef2b	7.756828036	-0.520918579	0.754730633	-0.690204632	0.490065511	0.84748171
Il1a	5.951041934	-0.701058328	1.034924509	-0.677400449	0.498151913	0.853776144
MAPT_h_ex10	10.32830872	-0.429883514	0.639028966	-0.672713659	0.501129476	0.853776144
Snap91	900.5756638	0.128288447	0.193654622	0.662460029	0.507676443	0.855408539
Il12a	4.364158241	-0.720043735	1.117512113	-0.644327455	0.519363116	0.855408539
C5ar1	17.60358008	0.354276117	0.550859856	0.643132937	0.520137844	0.855408539
Mbl2	3.21096495	-0.70775332	1.100558748	-0.643085452	0.520168654	NA
Plat	184.9131625	-0.169838482	0.266327418	-0.637705587	0.523665348	0.855408539
Calb	122.7654627	-0.189679993	0.299243062	-0.633865968	0.526168297	0.855408539
Jak3	20.80077325	0.316295543	0.503915614	0.627675616	0.530216462	0.855408539
Ptafr	13.0328557	0.367142194	0.586497557	0.625991003	0.531320843	0.855408539
P2ry6	28.73850703	-0.265724592	0.426796373	-0.622602742	0.533545609	0.855408539
Cfb	11.06485593	0.411302371	0.663882583	0.619540836	0.535560129	0.855408539
Bace1	450.8736	0.150317745	0.245552558	0.612161188	0.540431118	0.857235566
S100a8	763.1594344	-0.503989001	0.832831362	-0.605151323	0.545078455	0.857402238
Cltc	3956.45938	0.127478545	0.212191228	0.600771986	0.547991865	0.857402238
Ccnd1	61.20936403	-0.179556511	0.311869178	-0.575743048	0.564788873	0.864999699
Hspb1	272.128422	-0.193277874	0.343081682	-0.563358184	0.573191005	0.864999699
Mmp9	33.52998768	0.216613026	0.384903069	0.562772926	0.573589519	0.864999699
Csf1	170.8637254	0.155215609	0.276410749	0.561539698	0.574429676	0.864999699
Hspb2	19.87558401	-0.274701586	0.494940149	-0.555019807	0.578881113	0.864999699
Ace	105.9968788	-0.148078356	0.267911618	-0.552713457	0.580459637	0.864999699
Nlrp3	7.787269387	-0.423308453	0.769202435	-0.550321259	0.582099045	0.864999699
Mef2c	97.50657323	-0.146035829	0.265953303	-0.549103272	0.58293458	0.864999699
Ppp1r2	481.1767512	-0.118217065	0.225271873	-0.52477508	0.599739557	0.884231398
Apoe	7451.385463	0.104332329	0.201878324	0.51680798	0.605290209	0.886225373
Tubb5	901.1046686	-0.115314861	0.225316948	-0.511789558	0.608798299	0.886225373
Mpo	45.57742202	-0.273090871	0.539910655	-0.505807523	0.612991777	0.886717665
Tnfsf1a	100.9238119	-0.127682376	0.260772941	-0.489630465	0.624395415	0.890209563
Ece2	342.2962129	0.11884789	0.244410441	0.486263554	0.626780316	0.890209563
Hmox1	49.27100264	-0.162778513	0.334983823	-0.485929474	0.627017171	0.890209563
Lrrk2	51.61621521	0.155082093	0.32746471	0.47358414	0.635796487	0.89236253
Serping1	57.39299711	-0.219589336	0.464358291	-0.472887726	0.636293282	0.89236253
SCNA_h	15636.38429	0.083432931	0.181876355	0.458734345	0.646424947	0.898226655
Crhr1	29.18827175	-0.181902257	0.398781181	-0.456145539	0.648285325	0.898226655
GRN_h	2.325321892	0.581756477	1.329304335	0.437639795	0.661647419	NA
Adam17	123.1245077	0.109438255	0.25124678	0.435580726	0.663140958	0.913307906
Trem1	3.183376613	-0.469608297	1.125728626	-0.417159417	0.676561807	NA
Serpina3n	230.7903682	0.158659705	0.400587208	0.396067827	0.692054992	0.945661317
APOE_h	4.696060464	-0.368232817	0.938847069	-0.392218103	0.694897069	0.945661317

Trem12	6.538063086	-0.35669664	0.922375529	-0.386715203	0.69896706	0.945661317
Entpd1	55.7612626	-0.148519174	0.390919248	-0.3799229	0.704002648	0.945797147
Cxcl10	32.32340857	0.212550817	0.5660538	0.375495786	0.70729178	0.945797147
Card9	38.5295721	0.146400858	0.396192384	0.369519619	0.711740453	0.946244533
Arc	41.7226257	-0.142369746	0.397769587	-0.357920139	0.720403079	0.952256943
Nos2	3.401035139	-0.384918107	1.153860231	-0.333591623	0.73868774 NA	
Ptger1	4.55611192	-0.348086238	1.058629685	-0.32880831	0.742300582	0.97559505
Alox5	23.11309674	-0.167544537	0.540845532	-0.309782604	0.756726282	0.980941994
Ubqln1	131.4872447	0.080228461	0.266322378	0.301245663	0.763227172	0.980941994
Tlr2	15.27927476	-0.168534264	0.567520659	-0.296965866	0.766492569	0.980941994
Flii	252.5653125	0.066045927	0.224173936	0.294619118	0.768284856	0.980941994
Trf	9636.229019	0.079966792	0.272710231	0.293229895	0.769346435	0.980941994
Alox5ap	29.51501896	0.127199379	0.455783996	0.279078205	0.780184809	0.980941994
C1s1	17.87086616	0.18746392	0.675641089	0.277460804	0.781426299	0.980941994
Gls	606.4698624	-0.053748609	0.195897438	-0.274371169	0.783799397	0.980941994
Ctsb	209.1781476	0.060807305	0.232526943	0.261506493	0.793701943	0.980941994
Mrc1	55.37567291	-0.097874331	0.376834456	-0.259727659	0.795073856	0.980941994
Itm2b	3319.024442	0.047683263	0.184584264	0.258327889	0.796153864	0.980941994
Marco	21.67532131	-0.16842654	0.657306289	-0.25623753	0.797767431	0.980941994
Tlr4	19.93365868	0.142306554	0.587559703	0.242199308	0.808625731	0.980941994
Dnm1l	532.9253883	-0.044955547	0.187659099	-0.239559644	0.810671653	0.980941994
Maff	9.528285724	-0.156331784	0.675078041	-0.23157587	0.816867451	0.980941994
Map2k4	847.2931296	0.052154372	0.229612166	0.227141153	0.820313985	0.980941994
Myl2	7.773741083	-0.171188283	0.756065847	-0.226419806	0.820874925	0.980941994
Mertk	62.04213552	-0.064259379	0.294326847	-0.218326596	0.827174654	0.980941994
Sox10	183.0240443	-0.047152646	0.225529836	-0.209074982	0.834389705	0.980941994
Tgfb3	90.93107963	0.068621311	0.331123219	0.207237991	0.835823999	0.980941994
Mmp11	17.92159258	0.105189749	0.521283539	0.201789892	0.840080984	0.980941994
Tlr8	2.772973128	0.235441805	1.200463781	0.196125704	0.844511778 NA	
Mapk8	270.2716052	0.052632064	0.271273367	0.194018545	0.846161361	0.980941994
Mafk	22.73882322	-0.085878197	0.448861887	-0.191324323	0.848271506	0.980941994
Itgax	3.790167845	0.21713541	1.138374907	0.190741564	0.848728073	0.980941994
Myc	26.35331675	-0.076433712	0.437271548	-0.174796902	0.861239223	0.98273587
Map2k6	38.30780804	0.061945308	0.357095715	0.17346976	0.862282196	0.98273587
Syp	819.5605808	0.033297287	0.196947381	0.169066918	0.865744006	0.98273587
Tubb3	1657.779	-0.040039679	0.261930885	-0.152863525	0.8785059	0.98273587
Ifih1	31.28343385	-0.062274505	0.408406215	-0.152481775	0.878806964	0.98273587
Ly96	30.53671081	0.065651283	0.436935502	0.150253946	0.880564266	0.98273587
Axin1	32.91214772	-0.061338402	0.408676488	-0.150090363	0.880693323	0.98273587
Pink1	813.9150588	-0.036742447	0.26098681	-0.140782775	0.888041551	0.98273587
Clu	5244.048954	0.031429608	0.224649637	0.139905004	0.888735047	0.98273587
Tnf	2.333077062	0.177705463	1.281605136	0.138658514	0.889720003 NA	
Gba	103.3123003	0.032982216	0.247143759	0.133453568	0.893834683	0.982742186
Ece1	121.9162518	-0.043057061	0.333542662	-0.129090115	0.897286343	0.982742186
Tgfb1	44.93029752	0.037111561	0.365269149	0.101600589	0.919073712	0.994739976
Ms4a4a	6.457878812	0.089777564	0.915093538	0.098107527	0.921846911	0.994739976
Lyz2	177.2085129	0.038639267	0.39756008	0.097191013	0.922574705	0.994739976
Cd33	15.60779091	-0.044678475	0.553047361	-0.080785984	0.935612155	0.994739976
Gapdh	7948.216974	0.015978094	0.201376186	0.079344507	0.936758606	0.994739976
Ccl17	12.89988592	0.052701561	0.746405333	0.07060716	0.943710412	0.994739976
TARDBP_h	1.893180995	0.093962937	1.419608421	0.066189335	0.947227088 NA	
Tardbp	419.2847743	-0.012824666	0.210479384	-0.060930745	0.951414364	0.994739976
Npy	104.2284588	0.020833771	0.360459882	0.057797751	0.953909729	0.994739976
Tlr6	13.81099647	0.036375886	0.657755114	0.055303083	0.955897006	0.994739976
Casp8	30.23289105	-0.024093766	0.45926651	-0.052461403	0.958161049	0.994739976
Ptger4	9.769784431	-0.034196988	0.673845975	-0.050748969	0.959525555	0.994739976
Mmp3	3.757848346	0.047810003	1.018080562	0.046960923	0.962544372 NA	
Igfbp4	182.4620204	0.01087555	0.267650775	0.040633359	0.967588189	0.994739976
Bdnf	21.89635134	-0.016087435	0.502061542	-0.032042755	0.974437955	0.994739976

Aifm1	164.6382644	0.006537169	0.275877787	0.023695887	0.981095187	0.994739976
Stat6	65.12183187	-0.008588424	0.374708043	-0.022920308	0.981713841	0.994739976
FTL_h	3.851541424	0.022220199	1.084374416	0.020491261	0.983651483	0.994739976
Pgk1	3184.979255	0.003311447	0.200177091	0.016542587	0.986801528	0.994739976
Ftl	616.5315055	-0.00262608	0.19677968	-0.013345278	0.989352325	0.994739976
Ppp2ca	1936.308609	0.002459471	0.20472931	0.012013281	0.990415019	0.994739976
Abca1	193.5085123	-0.001049966	0.227094247	-0.004623482	0.996311008	0.996311008

Supplementary Table 6: Differential gene expression in spinal cord between IL-10 injected, alpha-synuclein seeded vs IL-10 injected, non-seeded (PBS) hemizygous M83 mice

Base Mean=gene counts normalized to library depth; lfcSE-log (Fold Change) Standard Error; stat=Wald test statistics

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
Serpina3n	1107.715207	2.316968978	0.600536335	3.85816618	0.000114241	0.01396338
Cd68	181.9037449	1.995619209	0.524066799	3.807948169	0.000140125	0.01396338
Hspb1	806.7824896	1.685366789	0.449039507	3.75327062	0.000174542	0.01396338
Fcrls	268.0452392	1.834853398	0.505648099	3.628716103	0.000284834	0.015282635
Timp1	107.1407386	2.218824137	0.616363962	3.59986027	0.000318388	0.015282635
Mmp9	35.53329644	-1.744481496	0.493261731	-3.536624449	0.000405276	0.01621102
Msr1	47.53746296	1.977648787	0.59202652	3.340473305	0.000836357	0.028675104
Il10	4529.896042	-6.711111992	2.05897608	-3.259441456	0.001116318	0.030737441
Lyz2	591.2669701	1.798948023	0.553463851	3.250344211	0.001152654	0.030737441
Ctsd	10165.05661	1.517428312	0.472932891	3.208548911	0.001334066	0.032017588
Tyrobp	1071.759644	1.452621773	0.49285766	2.94734543	0.003205149	0.069930533
Fcgr2b	643.0209573	1.068916843	0.375558667	2.8462047	0.004424374	0.081975266
Ccl3	24.9457389	1.609559025	0.565738466	2.845058487	0.004440327	0.081975266
S100a8	642.5263649	-1.360374149	0.495861817	-2.743454128	0.006079654	0.098512319
C1qa	1439.383312	1.216407604	0.444057858	2.739299804	0.00615702	0.098512319
C3ar1	150.8249473	1.347063203	0.517750013	2.601763727	0.009274572	0.137643922
Ms4a6d	122.7485635	1.035086499	0.40048543	2.584579664	0.009749778	0.137643922
Igfbp4	212.266004	-0.939113018	0.371917708	-2.525055941	0.011567987	0.154239831
Cd14	52.97200934	1.290972163	0.516800441	2.498009017	0.012489302	0.1577596
Ccnd1	129.5707606	0.980229677	0.403742949	2.427855837	0.015188379	0.172193453
Bsn	158.6558681	-1.071800992	0.442727023	-2.420907096	0.015481833	0.172193453
Limk1	496.8077864	-1.110714249	0.460139738	-2.413862913	0.0157844	0.172193453
Trem2	225.1772192	1.127848732	0.473314212	2.382875272	0.017178013	0.179248836
Masp2	9.319313421	-1.594154683	0.679604848	-2.345708229	0.018990967	0.189909673
Pink1	940.0682015	-0.844795824	0.368433052	-2.292942556	0.021851312	0.196346467
C2	61.70469306	-1.16610469	0.508701699	-2.292315306	0.021887455	0.196346467
Tlr7	31.36361175	1.056052425	0.461393117	2.288834372	0.022088978	0.196346467
S100a9	91.31921882	-1.11570085	0.495127106	-2.253362496	0.024236302	0.200929861
Gusb	180.8917267	0.890852182	0.395462405	2.252684882	0.024279025	0.200929861
C1qb	1651.606801	0.907189658	0.406518686	2.231606294	0.025640995	0.202010391
Arc	44.12657268	-1.063171113	0.478994554	-2.219589147	0.02644667	0.202010391
Fcer1g	128.4980084	0.971586452	0.439142546	2.212462583	0.026934719	0.202010391
Cd55	122.2250605	-0.858257496	0.395488119	-2.170122071	0.0299976	0.209955816
Atp13a2	48.29156962	-0.933820675	0.434039432	-2.151465064	0.03143951	0.209955816
Bace1	559.1676143	-0.837999962	0.390067139	-2.148348008	0.03168612	0.209955816
Igfbp5	168.68702	-0.863659583	0.403279832	-2.14158883	0.032226583	0.209955816
Apoe	16116.61394	0.822479876	0.386098952	2.130230789	0.033152564	0.209955816
Tubb3	1883.437422	-0.928972584	0.436314333	-2.129136071	0.033243004	0.209955816
Fos	74.69954519	0.829376012	0.395300747	2.098088654	0.035897315	0.220906552
Mpo	45.1834093	-1.00675496	0.482484832	-2.086604373	0.036923912	0.22154347
Grin2a	120.8524001	-0.964522136	0.471159985	-2.047122351	0.040646073	0.237928232
Hmox1	95.27251117	0.831598656	0.414605011	2.005761228	0.044881729	0.256467024
Fcgr3	133.3284406	0.767951213	0.385848991	1.990289545	0.046559049	0.25986446
Grn	823.8716915	0.765977863	0.390956198	1.959242151	0.050084435	0.273187827
Abca1	389.2620291	0.733057924	0.378067839	1.938958696	0.052506368	0.274427894
Calb	139.6674365	-0.734255681	0.378833569	-1.938201206	0.05259868	0.274427894
Ece2	434.794067	-0.708271672	0.375790946	-1.884749165	0.059463711	0.286488354
Snap91	1110.286113	-0.823085292	0.437269257	-1.882330576	0.059791145	0.286488354
App	3069.172239	-0.712421085	0.378953199	-1.87997116	0.060112009	0.286488354
Ace	118.3526832	-0.828178433	0.441001755	-1.877948158	0.060388257	0.286488354
Mfn1	250.6778236	-0.707320973	0.378206082	-1.870199891	0.061456065	0.286488354
H2Eb1	54.10817	-0.931500569	0.499312141	-1.865567633	0.062101882	0.286488354
Dlg4	477.7231685	-0.800459572	0.431098987	-1.856788338	0.063341274	0.286488354
Map2k4	1040.417637	-0.752619929	0.407044757	-1.848985686	0.06445988	0.286488354
Ccl2	83.77941478	1.051878295	0.585024284	1.798007919	0.072175753	0.303080091
APP_h	4920.506574	-0.678374814	0.377373353	-1.797622458	0.072236857	0.303080091
Il7	8.317992723	-1.176401975	0.655871443	-1.793647196	0.072869498	0.303080091

Tubb5	1069.922392	-0.652450307	0.365293339	-1.786099658	0.074083124	0.303080091
Lrp1	1109.84624	-0.622411249	0.349520492	-1.780757534	0.07495207	0.303080091
Itgax	10.59570586	1.395172025	0.792450472	1.760579462	0.078309607	0.303080091
Syp	1001.043598	-0.741173684	0.421500644	-1.758416492	0.078676669	0.303080091
Gjc2	380.3220751	-0.772297234	0.440336888	-1.753878122	0.079451393	0.303080091
Gfap	4920.483037	0.644739099	0.369703908	1.743933688	0.081170654	0.303080091
S100a11	572.9452617	0.670263598	0.385054686	1.740697159	0.081736677	0.303080091
Scna	699.9802561	-0.68041519	0.391331299	-1.738719063	0.082084191	0.303080091
Ctsc	272.1421005	0.599257769	0.350550134	1.709478075	0.08736243	0.31626023
Cltc	5096.954171	-0.658046419	0.387535208	-1.698030026	0.089502095	0.31626023
Ppp1r2	574.0100641	-0.637141799	0.375346994	-1.697474092	0.089607065	0.31626023
Mapt_ex1	448.6014194	-0.620996377	0.368806449	-1.683800214	0.092220286	0.316549933
Cxcr4	54.78250704	0.783358449	0.466080616	1.680735953	0.092814214	0.316549933
Flii	324.5883541	-0.602792362	0.359797966	-1.675363452	0.093862943	0.316549933
Ly86	626.084436	0.641326943	0.384081125	1.669769486	0.09496498	0.316549933
Igfbp2	373.053755	0.618001358	0.372211578	1.660349635	0.096844136	0.31839168
Ptafr	29.62498465	0.78271586	0.487699109	1.6049155	0.108512402	0.350505461
SCNA_h	20100.7803	-0.609774679	0.381038707	-1.600295897	0.109532957	0.350505461
Hprt1	1838.734552	-0.571858743	0.365285113	-1.565513411	0.117462575	0.370934448
Ftl	1177.592686	0.620342176	0.398255746	1.557647775	0.119316767	0.371896417
Gls	750.4879336	-0.57609096	0.375215322	-1.535360969	0.124695186	0.381182439
Ccl4	11.66090675	0.92164556	0.601516939	1.532202172	0.125472553	0.381182439
Cebpd	14.03320328	0.933865964	0.612736867	1.524089726	0.127486299	0.382458897
Prph	247.1882388	-0.733617989	0.484471484	-1.514264539	0.129958759	0.384485555
Mapk8	349.9663143	-0.578403795	0.383683722	-1.507501522	0.131682154	0.384485555
Gapdh	10257.47548	-0.518028072	0.344777324	-1.502500413	0.132967921	0.384485555
Tnfsf11	20.44102358	0.840536614	0.563992333	1.490333406	0.136136593	0.388961694
Plg	12.58069086	0.843107773	0.574557247	1.467404298	0.142266106	0.395644558
Ubqln1	169.2172601	-0.613817536	0.419108035	-1.464580693	0.143035353	0.395644558
Trem1	15.42893919	-0.818499672	0.570230161	-1.435384741	0.151177492	0.395644558
Zbp1	47.75514018	-0.847781184	0.595249644	-1.424244757	0.154375633	0.395644558
Serping1	65.76341449	-0.601976797	0.42345866	-1.421571582	0.15515066	0.395644558
Prkcb	622.0198766	-0.536874813	0.379210512	-1.415769858	0.156842897	0.395644558
Alox5	40.18135269	0.633233759	0.448237104	1.41272053	0.157737913	0.395644558
Ms4a4a	13.85459257	0.834684046	0.592953204	1.407672714	0.159228005	0.395644558
Dnm1l	666.0141912	-0.558927115	0.397257211	-1.406965308	0.159437676	0.395644558
Ubc	2455.154339	-0.533116452	0.37918964	-1.405936227	0.159743063	0.395644558
C1ra	74.77821055	-0.639096347	0.455234949	-1.403882431	0.160353862	0.395644558
Map2k6	47.80802567	-0.68892366	0.491442676	-1.401839306	0.160963238	0.395644558
Mme	81.16954973	-0.539396481	0.384964066	-1.401160599	0.161166054	0.395644558
Il1b	17.74051975	-0.736422813	0.526068418	-1.399861286	0.161554861	0.395644558
Ppp2ca	2475.026491	-0.529512146	0.381502442	-1.387965284	0.165147617	0.400357858
Mef2b	7.015834782	-0.967293534	0.7063273	-1.369469275	0.170852633	0.405913308
Tnfsf9	7.482853994	0.968580382	0.708774748	1.366555998	0.171764517	0.405913308
P2ry6	47.32068067	0.550198326	0.403320083	1.364172898	0.172513156	0.405913308
Lrrk2	67.9007215	-0.570414879	0.421064062	-1.354698561	0.175513616	0.408963767
Tgfb3	118.965802	-0.568420491	0.427748068	-1.328867465	0.183891699	0.421024558
Casp8	54.74940105	0.559203025	0.421105943	1.327939047	0.184198244	0.421024558
Itgb2	130.1777276	0.561452906	0.425217422	1.320390176	0.186704782	0.421489709
Il1a	8.855713984	0.880644332	0.668788932	1.316774681	0.187914162	0.421489709
Crrh1	34.47606047	-0.600619963	0.466081348	-1.288659084	0.197516633	0.438925851
Mertk	109.8529276	0.4956759	0.39199052	1.264509915	0.206047064	0.449783596
MAPT_h_ex1	8.066813412	0.882646442	0.698845174	1.263007138	0.206586615	0.449783596
Sod1	3305.421579	-0.449031806	0.356936892	-1.258014559	0.208386491	0.449783596
SOD1_h	4.349474099	1.156566669	0.922417324	1.253843178	0.209899011	0.449783596
Mapt_e9	76.29599372	-0.499758898	0.404675907	-1.234960841	0.216845078	0.452291575
Il1r1	71.23688722	0.480747815	0.389956932	1.232822847	0.217641866	0.452291575
Cd163	30.05987033	0.576556428	0.468173441	1.231501784	0.21813525	0.452291575
Tardbp	546.6827874	-0.44199101	0.359272455	-1.230239067	0.218607594	0.452291575
Aifm1	214.9575835	-0.483540784	0.396760435	-1.218722284	0.222949617	0.457332548
Ece1	158.0949909	-0.452191858	0.375226868	-1.205115884	0.228158569	0.464051327

Arg1	25.97549728	0.5498899	0.462123388	1.189920082	0.234077805	0.47208969
Tlr2	26.58352416	0.613104283	0.524686545	1.168515353	0.24259895	0.474928889
Tlr4	38.01062536	0.551258559	0.472010273	1.167895256	0.242849018	0.474928889
Ptpn6	107.0048296	0.466750217	0.400640342	1.16501053	0.24401473	0.474928889
Npy	138.383451	-0.443651504	0.380813877	-1.165008762	0.244015446	0.474928889
Ptgs2	29.07104825	0.640505012	0.551377852	1.161644433	0.245379926	0.474928889
C3	397.0893854	0.516701359	0.45729172	1.129916281	0.258511503	0.494344174
Maff	17.38588287	0.668485301	0.592891061	1.127501063	0.259530691	0.494344174
Marco	23.97896004	-0.69671939	0.622240072	-1.11969547	0.262843556	0.49634467
Ncf1	99.86826667	0.409306617	0.366988762	1.115311038	0.264717157	0.49634467
MAPT_h_ex10	10.90842616	-0.647053129	0.587179211	-1.101968729	0.270475267	0.501255271
Cat	739.2805925	-0.366265157	0.333283059	-1.09896122	0.271784981	0.501255271
C5ar1	35.68070709	0.516040604	0.471353662	1.094805548	0.273601835	0.501255271
Sox10	241.8110554	-0.371515165	0.345549609	-1.075142774	0.282310811	0.513292384
Pgk1	4272.912453	-0.367979315	0.347932182	-1.057617934	0.290229663	0.52372227
Il1rn	9.188111943	-0.692512807	0.664974847	-1.041412033	0.29768436	0.533166018
Aqp4	1903.015634	0.353509421	0.346679373	1.019701339	0.307870127	0.545238927
C1s1	24.40404021	-0.486924269	0.482589059	-1.008983233	0.312982675	0.545238927
Cfb	23.23087144	0.502842467	0.499970928	1.005743413	0.314539014	0.545238927
Fcgr4	138.5914857	0.415435641	0.414219843	1.002935152	0.315892151	0.545238927
Bdnf	29.25357689	-0.45648712	0.455848585	-1.001400761	0.316633096	0.545238927
Ptprc	96.53208796	0.400868717	0.40148675	0.998460641	0.318056041	0.545238927
Tlr1	21.01745942	0.481792161	0.48718858	0.988923347	0.322700647	0.549277697
Ide	241.2926973	-0.343953635	0.352077961	-0.97692464	0.328606462	0.555015385
Ptger4	17.42593774	0.506771236	0.520988178	0.972711583	0.330696667	0.555015385
Axin1	41.70002877	-0.422261733	0.442971379	-0.953248344	0.340464257	0.564163051
Serpina1a	198.3671029	-0.434263154	0.459125763	-0.945847934	0.344226153	0.564163051
Jak3	29.67919116	-0.43418537	0.460120136	-0.943634794	0.345356306	0.564163051
Clu	8979.402242	0.322266589	0.341653292	0.94325621	0.345549869	0.564163051
Nlrp3	11.83125731	0.52961554	0.570263398	0.928720906	0.353033743	0.565605546
Creb1	129.8511513	-0.358811818	0.387801537	-0.925245991	0.354837965	0.565605546
Ptger1	6.944964116	0.654147504	0.709684269	0.921744404	0.356661913	0.565605546
Trem12	6.666602742	-0.675805507	0.734012497	-0.920700274	0.357206933	0.565605546
Tlr8	5.778656822	0.705132874	0.767476388	0.918768167	0.358216846	0.565605546
C4a	1794.257809	0.358045244	0.392514894	0.91218257	0.361672618	0.567329597
Fcgr1	104.5659453	0.351796091	0.399151879	0.881358974	0.378123556	0.589283463
Adam10	613.2576425	-0.288882504	0.339855299	-0.850016183	0.395316089	0.60949307
Mmp2	41.36469034	-0.372683738	0.43923672	-0.848480378	0.396170496	0.60949307
Cd36	29.44045474	-0.382899761	0.470873205	-0.813169569	0.416120844	0.631956237
Tgfb1	76.48319568	0.339190442	0.419300463	0.808943639	0.418547566	0.631956237
Egr1	75.92129403	-0.314826769	0.389285835	-0.808729063	0.418671007	0.631956237
Ccl21b	3.533581677	-0.723102732	0.910168803	-0.794471014	0.426921277	0.637314632
Ifng	9.814170791	-0.480681024	0.60583261	-0.793422169	0.427531899	0.637314632
Trem11	3.256411804	-0.75398027	0.957947338	-0.787079039	0.431235599	0.638867554
Cd33	25.90691705	0.368476325	0.472037569	0.780608049	0.435033056	0.64053947
Tlr6	23.83321934	0.398243015	0.515241813	0.772924489	0.439567071	0.641097952
Hck	21.0295271	-0.384505011	0.498761769	-0.770919173	0.440754842	0.641097952
Entpd1	89.54926483	0.324509126	0.431274284	0.75244256	0.451784961	0.653183075
Tgfb1	233.4783983	0.268063466	0.358854269	0.746998124	0.455064693	0.653985187
Il4	10.72384915	0.46427082	0.645677387	0.719044571	0.472113458	0.674447797
Tnfsf1a	158.0508442	0.255890426	0.358802757	0.713178539	0.475735285	0.675600404
Ccl8	110.356564	-0.432733524	0.614969478	-0.703666669	0.481640382	0.676571919
Ccr4	9.213718182	0.465348997	0.661949997	0.702997204	0.482057492	0.676571919
Myc	42.54413678	0.306809386	0.441879998	0.694327392	0.487476916	0.680200348
Cfl1	2234.248382	-0.224296632	0.331121114	-0.677385472	0.498161414	0.691050691
LRRK2_h	21.25248251	-0.347372036	0.516232304	-0.672898681	0.501011751	0.691050691
Card9	55.35710624	-0.306745179	0.459134085	-0.668094985	0.504072963	0.691176028
Cxcl9	74.01715158	-0.424393827	0.639406254	-0.663731116	0.50686242	0.691176028
Igfbp3	236.5715393	-0.338518956	0.519513128	-0.651608089	0.514654028	0.69783597
FTL_h	6.317152438	0.466207187	0.721765663	0.645925971	0.518327299	0.698868268
Csf1r	277.6127493	0.224317417	0.364068983	0.616139874	0.537802207	0.721075585

Crh	22.88263068	0.291562599	0.488506967	0.596844301	0.550611338	0.727816939
GRN_h	3.363079878	-0.550866305	0.928039552	-0.593580633	0.552792638	0.727816939
Stat6	90.99689093	-0.221981386	0.375861257	-0.590593954	0.554792517	0.727816939
IL6ra	48.93913078	0.235293593	0.398570685	0.590343449	0.554960416	0.727816939
IL6	4.842965836	0.47657069	0.820365025	0.580925168	0.561290889	0.732118551
Cxcl15	4.677749475	0.444712868	0.796056498	0.558644857	0.57640412	0.747767507
Ltbr	63.11998952	0.225446087	0.413465706	0.545259459	0.585575083	0.755580752
ITM2b_h	2.218491178	0.604772906	1.121515243	0.539246265	0.589716941	0.756855967
Alox5ap	48.61661178	0.210472308	0.405097807	0.519559237	0.603370815	0.770260615
Vwvf	179.6643888	0.217643326	0.425202267	0.511858339	0.608750157	0.770367227
Hspb2	24.94789881	-0.245469047	0.481072976	-0.510253244	0.609874055	0.770367227
Th	9.268220205	-0.321398899	0.644809373	-0.498440178	0.618173824	0.77676292
Itm2b	4828.01219	-0.157043376	0.32948531	-0.476632405	0.633623904	0.79202988
Casp1	54.50580316	0.187798621	0.4078948	0.460409452	0.645222351	0.794687074
MyI2	10.23390771	-0.267879473	0.59374424	-0.451169805	0.65186717	0.794687074
Ctsb	342.8539201	0.158317782	0.353787602	0.447493867	0.654518515	0.794687074
Tnfrsf1b	8.741554236	0.281772012	0.631154701	0.446438902	0.655280238	0.794687074
Ccl19	41.25028818	-0.243976234	0.550110108	-0.443504366	0.657400962	0.794687074
Ccl11	12.68510197	-0.269135601	0.610176484	-0.441078292	0.659156318	0.794687074
Crp	4.848439262	0.35702745	0.816245901	0.43740183	0.661819957	0.794687074
Dock2	20.95192332	0.206833422	0.482621399	0.428562477	0.668241657	0.794687074
TARDBP_h	3.490512175	0.405343789	0.947253428	0.427914829	0.66871313	0.794687074
Trf	15757.93644	0.143377367	0.340225295	0.421418893	0.673449226	0.794687074
Mrc1	84.57264969	0.158810873	0.378082701	0.420042684	0.674454272	0.794687074
Ccl5	65.23150087	0.252129437	0.606235873	0.415893298	0.677488084	0.794687074
Tnf	4.167494066	0.348362565	0.841236559	0.414107734	0.678795209	0.794687074
Ptgds	9434.903142	-0.176184268	0.480946542	-0.366328174	0.714120209	0.83198471
H2-Ea-ps	142.3330366	0.515336601	1.432538317	0.359736696	0.719044047	0.833674257
Adam17	201.0988724	0.125239974	0.353466732	0.354318986	0.723099841	0.83434597
Csf1	260.9590474	-0.1165681	0.345207318	-0.337675633	0.735607639	0.844716906
Itgam	169.4976275	0.126002262	0.382977104	0.329007296	0.742150173	0.848171626
Cx3cr1	322.5386019	0.124976101	0.387618689	0.322420216	0.747134371	0.849072379
Eif2s1	247.364975	-0.107442884	0.337212197	-0.318620989	0.750013935	0.849072379
Ccl7	27.54282666	0.148294447	0.487982585	0.303892908	0.761209481	0.857700823
Cxcr2	17.14358276	-0.169510279	0.5708149	-0.296961904	0.766495594	0.859186553
Ccr1	28.90088431	0.143749649	0.490976606	0.292783091	0.769687953	0.859186553
Cxcl10	51.9761112	0.119533648	0.436976266	0.273547232	0.78443259	0.871591767
Stat3	581.1728304	-0.083971639	0.330867124	-0.253792635	0.799655764	0.884411905
Mmp3	6.53097256	0.17772304	0.736610168	0.241271499	0.809344699	0.891021687
IL10rb	164.0457057	0.081122972	0.34930047	0.232244096	0.816348431	0.894628417
Gba	153.2336923	-0.075318091	0.351607501	-0.214210705	0.830382749	0.905817513
Cxcl5	23.13751449	0.110410268	0.540788001	0.204165529	0.838224148	0.905817513
Il12a	4.340000665	-0.16889391	0.841658871	-0.20066789	0.840958269	0.905817513
Mef2c	142.5346713	0.072653458	0.363673832	0.199776426	0.841655439	0.905817513
Tlr9	24.96244618	-0.086684001	0.469839066	-0.18449722	0.853623408	0.914596509
APOE_h	5.758495048	-0.127360044	0.73691523	-0.172828622	0.862786138	0.920305214
Chil3	15.52080604	-0.095379525	0.600421031	-0.158854405	0.873783584	0.92539998
Fcgrt	159.1034231	-0.05847117	0.372516046	-0.156962824	0.875274147	0.92539998
Ifih1	46.27399236	0.044391972	0.416131482	0.106677753	0.915044632	0.963204876
Mbl2	3.582423616	-0.088457768	0.890868019	-0.099293909	0.920904914	0.965140522
P2ry12	156.2608608	-0.037765882	0.40127221	-0.094115369	0.925017512	0.965235664
Mmp11	28.68748798	0.040103181	0.475921665	0.084264247	0.932846338	0.969191
Ackr3	36.91710483	-0.02835767	0.472697979	-0.059991096	0.952162726	0.984995924
Igf1	53.02446279	0.020940078	0.39036881	0.05364178	0.957220569	0.985978269
Nos2	4.078323139	-0.038163271	0.845326871	-0.04514617	0.9639908	0.986889865
Ccl17	19.18015273	0.014948405	0.494326407	0.030239948	0.975875689	0.986889865
B2m	4302.851882	-0.011373987	0.387386331	-0.029360838	0.976576806	0.986889865
Trem14	14.39278716	-0.015188714	0.577034236	-0.026322033	0.979000481	0.986889865
Mafk	33.1852568	-0.009524888	0.436170933	-0.021837512	0.982577571	0.986889865
Ly96	46.53235791	-0.00916617	0.424625644	-0.021586473	0.982777824	0.986889865
Plat	258.0619061	-0.004478468	0.362945898	-0.012339216	0.99015498	0.99015498

Supplementary Table 7: Differential gene expression in spinal cord between II-10-injected, alpha-synuclein seeded vs GFP-injected, alpha-synuclein seeded hemizygous transgenic M83 mice

Base Mean=gene counts normalized to library depth; lfcSE-log (Fold Change) Standard Error; stat=Wald test statistics

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
Fcgr4	116.8322379	1.729939173	0.53276745	3.247081206	0.001165951	0.279828282
Il10	53.2990376	5.383793401	2.026687361	2.656449882	0.007896819	0.947618254
Ms4a6d	133.3880519	1.071105225	0.469757093	2.280125712	0.022600234	0.998034871
Ccl8	70.06470523	1.684293566	0.749872869	2.246105487	0.024697252	0.998034871
Fcgr2b	727.9573023	0.879056267	0.442591655	1.986156444	0.047015956	0.998034871
Cxcl9	48.74468798	1.391248252	0.701015823	1.984617474	0.047187047	0.998034871
Csf1	323.8220365	-0.746894104	0.385631761	-1.936806507	0.052769	0.998034871
Arg1	24.72732356	1.093814039	0.565157646	1.935414033	0.052939509	0.998034871
Alox5ap	43.53835781	0.876505021	0.484262684	1.809978449	0.070299129	0.998034871
C5ar1	34.65569443	0.957453324	0.555195269	1.724534371	0.08461142	0.998034871
Mpo	24.67617425	0.937502065	0.580724383	1.61436663	0.106447925	0.998034871
Tnfsf9	7.499352068	1.466295976	0.918314237	1.596725737	0.110326856	0.998034871
P2ry12	193.8573925	-0.688679505	0.463470678	-1.485918177	0.137300765	0.998034871
Grn	1300.293205	-0.672665258	0.467151462	-1.439929685	0.149887294	0.998034871
Ccl5	58.45551602	0.998474951	0.712100881	1.402153794	0.160869326	0.998034871
H2-Ea-ps	118.0926861	2.299157664	1.674732342	1.372850817	0.169798729	0.998034871
Tgfb1	106.8531059	-0.647590773	0.487174101	-1.329279967	0.183755621	0.998034871
S100a8	312.8362318	0.6832842	0.519361935	1.315622409	0.188300808	0.998034871
Card9	42.31785822	0.732658264	0.58378094	1.255022584	0.209470562	0.998034871
Il7	7.359907355	-1.006749914	0.815140267	-1.235063406	0.216806907	0.998034871
Msr1	64.16757401	0.876759381	0.714151608	1.227693631	0.219561998	0.998034871
Ccl4	19.44669999	-0.733457463	0.609365029	-1.203642198	0.228727902	0.998034871
Tnfsf1a	203.3301832	-0.487690583	0.406092333	-1.200935212	0.229776334	0.998034871
S100a9	50.38291519	0.637689357	0.545335282	1.169352833	0.242261505	0.998034871
Tgfb1	299.6730491	-0.475433638	0.411853367	-1.154375989	0.248346055	0.998034871
Il4	10.11793393	0.932225962	0.80994215	1.150978452	0.2497411	0.998034871
Cd14	64.54677789	0.702627005	0.610627564	1.150663754	0.249870593	0.998034871
Gfap	7090.53993	-0.490340903	0.428096947	-1.145396869	0.252044795	0.998034871
Igfbp3	177.6462993	0.73654045	0.643447537	1.144678328	0.252342432	0.998034871
Ctsc	297.6573081	0.465233227	0.407767492	1.140927701	0.253900011	0.998034871
Lrp1	1018.988171	-0.451748935	0.398937212	-1.132381039	0.257474273	0.998034871
Cd36	30.88735305	-0.573405149	0.508976118	-1.12658557	0.259917743	0.998034871
Mrc1	80.77798323	0.472176136	0.426567262	1.106920709	0.268328212	0.998034871
Trf	19042.69576	-0.403578188	0.36533163	-1.104689971	0.269293951	0.998034871
Trem2	6.916201078	-0.895577602	0.814613603	-1.099389451	0.27159823	0.998034871
Mmp2	43.35938847	-0.527483532	0.488127224	-1.080627151	0.279863	0.998034871
SOD1_h	7.94437098	-0.859338414	0.795455223	-1.080310228	0.280004056	0.998034871
Ccl19	32.30865314	0.719156094	0.67462458	1.066009328	0.286419425	0.998034871
Npy	105.7696803	0.483690176	0.459669775	1.052255775	0.292682216	0.998034871
Vwf	173.6977169	0.471902417	0.452473769	1.042938729	0.296976671	0.998034871
Tlr6	23.68033172	0.597281111	0.573610799	1.041265457	0.297752364	0.998034871
Il1r1	75.05394447	0.460098176	0.441982925	1.040986315	0.297881899	0.998034871
Ifng	6.930362366	0.863886406	0.841668067	1.026397982	0.304704029	0.998034871
SCNA_h	14327.58482	0.490031909	0.487823961	1.004526116	0.31512509	0.998034871
Chil3	12.63795258	0.81387026	0.811782816	1.002571431	0.316067686	0.998034871
Mapk8	256.0167502	0.429994247	0.435073447	0.988325649	0.322993188	0.998034871
Tlr9	29.23326653	-0.534823615	0.542647209	-0.985582541	0.324338009	0.998034871
Lyz2	802.6811879	0.645112074	0.677111204	0.952741692	0.340720964	0.998034871
Ccr1	26.69670751	0.562945786	0.596800211	0.943273436	0.345541059	0.998034871
Ccl7	25.85394775	0.524570846	0.560072944	0.936611654	0.348958355	0.998034871
Cx3cr1	390.3377023	-0.434874443	0.465016652	-0.935180367	0.349695355	0.998034871
Tlr7	48.93717938	-0.43477719	0.468979539	-0.927070701	0.353889827	0.998034871
Tgfb3	86.49236737	0.476123834	0.522626884	0.911020554	0.362284544	0.998034871
Ccl3	44.7255997	-0.549162765	0.603850242	-0.909435365	0.363120361	0.998034871

Tlr8	5.873880638	0.877495375	0.976665693	0.898460324	0.368940189	0.998034871
Il1b	11.60747021	0.645137088	0.72320802	0.892049133	0.372366598	0.998034871
Ptgs2	30.74024734	0.613383839	0.698048525	0.878712321	0.379557277	0.998034871
Cebpd	22.59250835	-0.581497133	0.664380477	-0.875247171	0.381439432	0.998034871
Ilgam	163.7830211	0.394636705	0.455377677	0.866614076	0.386153498	0.998034871
Ptafr	44.09299928	-0.476097671	0.549605186	-0.866253964	0.386350906	0.998034871
Igfbp5	136.2942746	-0.382337875	0.443924074	-0.861268622	0.389090113	0.998034871
Cxcl10	62.58540057	-0.400387559	0.465385727	-0.860334849	0.389604488	0.998034871
Ccl17	17.18842434	0.528159744	0.615482519	0.858123063	0.390824514	0.998034871
Egr1	77.0452321	-0.381170828	0.444334118	-0.85784731	0.390976782	0.998034871
Marco	16.08140874	0.65178866	0.793887469	0.821008879	0.411641211	0.998034871
Myl2	8.069458109	0.636565856	0.789088683	0.806710159	0.41983349	0.998034871
Calb	97.00364216	0.366873827	0.455988421	0.804568297	0.421068843	0.998034871
Mef2c	163.0151711	-0.320111348	0.398840279	-0.802605366	0.422202866	0.998034871
C2	34.75255572	0.453956264	0.566151682	0.801827988	0.422652467	0.998034871
C3	543.9757401	-0.448318069	0.562295742	-0.79729942	0.425277157	0.998034871
Hprt1	1378.522453	0.340486615	0.427701911	0.796083923	0.425983258	0.998034871
Th	7.153200097	0.678529337	0.853524586	0.794973394	0.426628979	0.998034871
Ltbr	76.93232676	-0.353779991	0.457989217	-0.772463581	0.439839909	0.998034871
Myc	53.66649648	-0.381408003	0.501597386	-0.760386742	0.447023446	0.998034871
Scna	496.7140854	0.382906306	0.513578932	0.745564668	0.455930433	0.998034871
Csf1r	332.6292555	-0.3149124	0.424574289	-0.741713307	0.458261056	0.998034871
Map2k4	719.7405631	0.357875574	0.4924589	0.726711557	0.467402672	0.998034871
Masp2	4.109320696	0.811749168	1.175353695	0.690642461	0.489790257	0.998034871
Gapdh	8022.74969	0.258135179	0.374781605	0.688761603	0.490973303	0.998034871
Ly96	52.38139345	-0.326757403	0.483934196	-0.675210402	0.499542099	0.998034871
Trem14	12.85200371	0.488448605	0.731337371	0.667884104	0.504207575	0.998034871
Ilgax	18.17319074	-0.561422124	0.878520905	-0.639053802	0.522787932	0.998034871
Plg	14.78814146	0.412287287	0.647803875	0.636438439	0.524490693	0.998034871
Gls	569.3051904	0.279424557	0.447398648	0.62455387	0.532263904	0.998034871
Prph	172.1055687	0.373295815	0.602046823	0.620044491	0.535228496	0.998034871
Atp13a2	30.9895659	0.342185132	0.552856283	0.618940478	0.535955571	0.998034871
Lrrk2	51.33953521	0.322592823	0.528391968	0.61051803	0.541518703	0.998034871
MAPT_h_ex10	9.858114204	-0.433378582	0.711756854	-0.608885717	0.542600192	0.998034871
Ctsb	394.415019	-0.235218513	0.388117488	-0.606049765	0.544481708	0.998034871
Syp	702.5393914	0.309486075	0.514714196	0.601277519	0.54765516	0.998034871
Cd163	33.78935516	0.314790007	0.543594157	0.579090124	0.562528364	0.998034871
Igfbp2	491.3766793	-0.241473119	0.418116481	-0.577525954	0.563584211	0.998034871
Adam17	201.7028914	0.222322928	0.388376115	0.572442331	0.567022345	0.998034871
Ccl2	105.2301558	0.408333543	0.717133333	0.569396964	0.569086777	0.998034871
Tardbp	442.1568498	0.238498606	0.418952887	0.569273092	0.569170824	0.998034871
Sod1	2673.891866	0.234527232	0.417306395	0.562002488	0.574114324	0.998034871
Tubb3	1218.701967	0.3111622	0.554492662	0.561165587	0.57468466	0.998034871
Aqp4	2320.687832	-0.219802882	0.39507343	-0.556359565	0.577965075	0.998034871
Mafk	36.35516602	-0.268080872	0.485912078	-0.55170654	0.581149428	0.998034871
C1s1	22.90143841	-0.298098453	0.541688315	-0.550313611	0.58210429	0.998034871
Hck	20.18022146	-0.330550046	0.60251579	-0.548616403	0.583268726	0.998034871
Igfbp4	157.28647	-0.215910791	0.402716611	-0.536135797	0.591864702	0.998034871
Tubb5	798.058454	0.226892535	0.423554409	0.535686869	0.59217498	0.998034871
Cxcr2	14.79958998	0.355667144	0.667273453	0.533015576	0.594022798	0.998034871
IL6	6.446871532	-0.450522498	0.877042047	-0.513684035	0.607472916	0.998034871
Casp1	55.42589249	0.248537136	0.484628596	0.512840426	0.608062949	0.998034871
Nlrp3	15.68802929	-0.310409908	0.605997906	-0.51222934	0.608490511	0.998034871
Serpina3n	2112.779373	-0.385299299	0.754016632	-0.510995756	0.609354028	0.998034871
Pink1	730.1320409	-0.225287849	0.446274524	-0.504818979	0.613685984	0.998034871
Ccl11	13.23725996	-0.373736076	0.741133282	-0.504276471	0.614067109	0.998034871
FTL_h	8.415383227	-0.386820476	0.777329748	-0.497627265	0.618746783	0.998034871
Fcrls	398.9089378	0.275274053	0.569400372	0.483445508	0.628779442	0.998034871

GRN_h	3.157330779	-0.540779502	1.128968238	-0.479003292	0.631936287	0.998034871
APOE_h	4.894747772	0.457536511	0.960464712	0.476369934	0.633810851	0.998034871
Crhr1	25.89214926	0.285025408	0.599851837	0.475159683	0.634673161	0.998034871
Tyrobp	1733.276417	-0.295380555	0.624030099	-0.473343442	0.635968173	0.998034871
Ccnd1	185.8524388	-0.216376335	0.463388704	-0.466943481	0.640540315	0.998034871
Dlg4	331.8671078	0.248387196	0.535531294	0.463814531	0.642780632	0.998034871
Il1rn	8.03666454	-0.391700683	0.857277681	-0.45691226	0.647734112	0.998034871
Mef2b	5.440369753	-0.418624695	0.918476516	-0.455781599	0.648547037	0.998034871
Dnm1l	517.138503	0.21387246	0.477061073	0.448312538	0.653927653	0.998034871
Gusb	253.5113586	-0.204784867	0.467265377	-0.438262446	0.661196046	0.998034871
Ifih1	50.72466008	-0.203315239	0.469380992	-0.433156099	0.66490137	0.998034871
Cxcr4	66.13084124	0.256360199	0.594389843	0.431299764	0.666250422	0.998034871
Cfl1	2013.643154	0.152570805	0.368171054	0.414401956	0.678579756	0.998034871
Creb1	110.1692143	0.188604528	0.46130358	0.408851212	0.682648855	0.998034871
Tlr4	43.12144045	0.228698089	0.561229331	0.407494899	0.68364454	0.998034871
TARDBP_h	4.624868428	-0.417278805	1.024016313	-0.407492341	0.683646418	0.998034871
Abca1	521.6387541	-0.18107	0.44465195	-0.407217374	0.683848342	0.998034871
Ace	92.41352041	-0.221915537	0.54938397	-0.403935224	0.686260353	0.998034871
S100a11	753.9748691	-0.177609234	0.443432071	-0.400533127	0.688763889	0.998034871
Arc	31.08761686	-0.231039041	0.58301911	-0.396280391	0.691898192	0.998034871
Casp8	70.07829237	-0.175810627	0.446063348	-0.394138248	0.693478974	0.998034871
Il12a	4.601750886	-0.383272691	0.997990587	-0.384044395	0.700945543	0.998034871
Pgk1	3643.208668	0.150485689	0.393271377	0.382651009	0.701978544	0.998034871
Crh	24.1401542	0.215617803	0.569308145	0.37873655	0.704883509	0.998034871
Ncf1	111.2770764	0.15140516	0.412479055	0.367061451	0.713573181	0.998034871
Entpd1	106.2370418	-0.176753149	0.485477165	-0.364081282	0.715797314	0.998034871
Ece1	141.8878244	-0.157863518	0.43373277	-0.36396493	0.715884197	0.998034871
Fcer1g	164.8616595	0.193986209	0.533803784	0.363403586	0.716303424	0.998034871
Ly86	813.3302823	-0.173453848	0.481860277	-0.359967104	0.718871734	0.998034871
Cxcl5	22.77887627	0.251593285	0.699484545	0.359683837	0.71908358	0.998034871
Dock2	21.59242714	0.197465322	0.560094018	0.352557455	0.724420238	0.998034871
Ide	208.1969736	0.145837139	0.413719309	0.352502617	0.724461356	0.998034871
Adam10	582.3391107	-0.130602795	0.37658088	-0.346812071	0.728732508	0.998034871
Stat3	596.7386241	-0.129610205	0.375018315	-0.345610335	0.729635578	0.998034871
Ms4a4a	17.20310499	0.210189588	0.610577337	0.34424728	0.730660328	0.998034871
P2ry6	54.94267819	0.150151848	0.44129664	0.34025151	0.73366713	0.998034871
Trem1	12.30259563	-0.24879134	0.733593119	-0.339140777	0.734503682	0.998034871
Fcgr1	125.0069797	-0.16035814	0.47465407	-0.337842125	0.735482163	0.998034871
Ptger1	7.910038324	0.264251621	0.783062144	0.337459323	0.735770671	0.998034871
Igf1	56.62202535	-0.148360625	0.440015744	-0.337171174	0.735987866	0.998034871
Snap91	776.5545096	0.181273965	0.544673365	0.332812245	0.739276014	0.998034871
C1qb	2297.485519	-0.167214381	0.502822689	-0.332551384	0.739472946	0.998034871
Ptpn6	132.9338717	-0.15740549	0.477068609	-0.329943089	0.741442965	0.998034871
Cat	679.7506712	-0.116699774	0.360952663	-0.323310467	0.746460127	0.998034871
Serping1	51.31564881	0.145719283	0.451042242	0.323072362	0.746640441	0.998034871
Ubqln1	130.0179371	0.165395118	0.514276446	0.321607414	0.747750126	0.998034871
Trem1	2.654164615	-0.379107862	1.204817081	-0.314660099	0.753019743	0.998034871
Timp1	192.3628774	-0.210612917	0.67606973	-0.311525436	0.755401209	0.998034871
ITM2b_h	2.439043794	0.392530798	1.282090249	0.306164717	0.759479235	0.998034871
Ptger4	19.75157476	0.17749794	0.588343058	0.301691229	0.762887455	0.998034871
Mmp9	15.91182271	0.208792219	0.714262463	0.292318622	0.770043022	0.998034871
Limk1	305.8418281	0.165485533	0.572045335	0.289287445	0.772361419	0.998034871
Alox5	47.53686004	0.13900925	0.500492821	0.277744742	0.781208312	0.998034871
Cd55	85.36934221	0.134553228	0.487713916	0.275885562	0.782635964	0.998034871
Mmp3	6.672931452	0.244073762	0.889515561	0.274389536	0.783785284	0.998034871
Il1a	10.9185951	0.205022785	0.751255477	0.272906875	0.784924801	0.998034871
App	2447.771341	-0.120367381	0.442512742	-0.272008847	0.785615217	0.998034871
Hspb1	1300.632132	-0.150684535	0.55628071	-0.270878591	0.786484412	0.998034871

Plat	270.1316634	-0.108172083	0.408472445	-0.264821005	0.791147355	0.998034871
Bdnf	26.15149184	-0.141685882	0.544397813	-0.260261666	0.79466194	0.998034871
C3ar1	212.3000312	0.167491676	0.657225078	0.254846752	0.798841464	0.998034871
Aifm1	176.4559087	0.117926698	0.479178352	0.24610189	0.80560336	0.998034871
Mmp11	30.87589168	-0.135302128	0.550026559	-0.245991991	0.805688432	0.998034871
Fcgr3	166.0421028	0.108470369	0.450620051	0.240713587	0.809777108	0.998034871
LRRK2_h	18.36388879	0.157553571	0.659624213	0.238853529	0.811219161	0.998034871
Mbl2	3.779792205	-0.24817551	1.060340513	-0.234052653	0.814944103	0.998034871
Ccr4	11.44872929	-0.183318888	0.795287534	-0.230506427	0.81769827	0.998034871
Clu	10413.34922	-0.088344806	0.387743335	-0.22784352	0.819767893	0.998034871
Trem2	325.5044194	-0.130922399	0.581565238	-0.225120744	0.821885344	0.998034871
Eif2s1	237.1477275	0.082937204	0.379930651	0.218295639	0.827198772	0.998034871
C1ra	61.63391237	-0.096183385	0.458731119	-0.209672683	0.833923147	0.998034871
Ece2	327.1256974	0.089994839	0.439081872	0.204961408	0.837602277	0.998034871
Map2k6	36.24272332	0.11723367	0.639890015	0.183209095	0.854633959	0.998034871
Cltc	3932.770251	0.083143928	0.459541314	0.180928081	0.856424027	0.998034871
Nos2	3.984463937	0.173796711	1.037749986	0.167474549	0.866996672	0.998034871
Bace1	416.7091949	-0.076165861	0.456346258	-0.166903661	0.867445852	0.998034871
Mapt_e9	62.95097997	0.081176441	0.486900226	0.166720894	0.867589665	0.998034871
Ubc	1998.991424	0.074866144	0.457681301	0.163577021	0.870064136	0.998034871
Tnf	4.599745116	0.160334099	0.998957146	0.160501478	0.872486057	0.998034871
Tlr1	24.22302834	0.086587918	0.544983946	0.158881594	0.873762162	0.998034871
Apoe	20596.24403	0.07395609	0.467657248	0.158141652	0.87434518	0.998034871
Hspb2	23.90845352	-0.086332362	0.555925642	-0.155294801	0.876588914	0.998034871
Mapt_ex1	365.8370002	-0.064509441	0.430395431	-0.149884121	0.88085604	0.998034871
Cfb	27.09560986	0.084904233	0.592703551	0.143249071	0.886093476	0.998034871
Itm2b	4582.808992	0.049207739	0.356153019	0.1381646	0.890110332	0.998034871
Axin1	37.0186775	-0.072934088	0.531942986	-0.137108844	0.890944762	0.998034871
Mfn1	190.4054279	0.059795017	0.438736872	0.136289016	0.891592807	0.998034871
Crp	5.911455292	-0.126080036	0.937305774	-0.13451324	0.892996743	0.998034871
Gjc2	292.0588584	-0.069284745	0.53072514	-0.130547321	0.896133417	0.998034871
Ctsd	15660.42239	-0.077454826	0.597897926	-0.129545233	0.896926236	0.998034871
Ppp2ca	2028.79032	0.058235333	0.454820589	0.12804023	0.898117136	0.998034871
IL6ra	54.62432823	-0.05352023	0.441966867	-0.121095572	0.903615337	0.998034871
Tnfrsf1b	9.430928818	0.0924662	0.786754929	0.117528593	0.906441187	0.998034871
Prkcb	509.4506744	0.051392879	0.452219181	0.113645952	0.909518459	0.998034871
Cxcl15	5.739307141	-0.09821332	0.893945769	-0.109864964	0.912516469	0.998034871
C1qa	2014.539005	0.059392797	0.549122384	0.108159491	0.913869178	0.998034871
Zbp1	35.85888413	-0.0778211	0.723460601	-0.107567849	0.914338502	0.998034871
Stat6	86.53105795	-0.043559227	0.413867393	-0.105249236	0.916178043	0.998034871
Hmox1	126.2115801	-0.046736884	0.501805224	-0.093137501	0.925794326	0.998034871
Flii	259.2966824	0.036984801	0.405235214	0.09126749	0.927280049	0.998034871
Maff	21.91020697	-0.058040888	0.691990358	-0.083875284	0.933155591	0.998034871
C4a	2040.794179	0.04029304	0.489713989	0.08227872	0.934425076	0.998034871
Fos	98.27767368	-0.034571815	0.434133395	-0.079634084	0.936528286	0.998034871
Cd33	29.94355708	-0.037424965	0.54165645	-0.069093546	0.944915159	0.998034871
B2m	4414.217352	-0.027550113	0.400760588	-0.068744567	0.945192943	0.998034871
Ackr3	37.94580714	-0.034514202	0.577116792	-0.059804537	0.952311312	0.998034871
Itgb2	159.5417036	-0.028949404	0.505379686	-0.057282484	0.954320173	0.998034871
Sox10	215.7405484	-0.02077078	0.378139732	-0.054928847	0.95619515	0.998034871
Ftl	1466.39608	-0.026009812	0.484935617	-0.053635599	0.957225494	0.998034871
Fcgrt	159.1497778	-0.022425107	0.425839203	-0.052660974	0.958002034	0.998034871
Cd68	299.5642545	-0.033696817	0.658140137	-0.051200063	0.959166101	0.998034871
Ptgds	9028.341495	-0.029208132	0.60047822	-0.048641451	0.961205036	0.998034871
Mertk	131.023588	-0.020661404	0.452981324	-0.045612045	0.963619469	0.998034871
Bsn	103.4197844	0.023033721	0.545315007	0.042239293	0.966307939	0.998034871
Ppp1r2	458.942002	-0.016674239	0.442491298	-0.037682638	0.969940719	0.998034871
Mme	67.62462579	-0.013664306	0.455512883	-0.029997628	0.976068945	0.998034871

Jak3	25.89754032	-0.012721224	0.535498399	-0.023755858	0.98104735	0.998034871
Ccl21b	2.750656064	0.027643945	1.207749178	0.022888813	0.981738964	0.998034871
APP_h	3857.389443	-0.007965966	0.436137112	-0.01826482	0.985427592	0.998034871
H2Eb1	38.10360563	0.010667045	0.605466512	0.017617895	0.985943681	0.998034871
MAPT_h_ex1	10.35424625	0.011544948	0.732305363	0.015765211	0.987421703	0.998034871
Ptprc	112.3109495	-0.007181028	0.457680521	-0.015690045	0.987481669	0.998034871
Tlr2	32.57031971	0.008365306	0.647971384	0.012909993	0.989699602	0.998034871
IL10rb	172.2294505	-0.005130043	0.401119711	-0.012789307	0.989795887	0.998034871
Grin2a	83.2340164	0.005796484	0.579268018	0.010006566	0.992016049	0.998034871
Serpina1a	173.4543574	-0.003937432	0.488467781	-0.008060781	0.993568497	0.998034871
Gba	151.6347544	0.001365862	0.392150217	0.003483007	0.997220968	0.998034871
Tnfsf11	26.26696894	-0.0015805	0.641716211	-0.002462927	0.998034871	0.998034871

Supplementary Table 8: Differential gene expression in spinal cord between alpha-Synuclein seeded versus sham-seeded (PBS) hemizygous M83 transgenic mice

Base Mean=gene counts normalized to library depth; lfcSE=log (Fold Change) Standard Error; stat=Wald test statistics

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
C1qa	663.5805922	2.570220191	0.264048783	9.733883873	2.16E-22	5.19E-20
Tyrobp	677.7501635	2.373049588	0.262242136	9.049078169	1.44E-19	1.73E-17
Ctsd	5819.154271	2.154739123	0.271018527	7.950523343	1.86E-15	1.49E-13
C1qb	853.3748024	2.390177102	0.31690789	7.542182382	4.62E-14	2.77E-12
Cd68	97.51379482	2.912921634	0.388641268	7.495142368	6.62E-14	3.18E-12
Serpina3n	786.0019375	3.008151559	0.406106464	7.40729791	1.29E-13	5.16E-12
Fcrls	116.9867572	2.774988108	0.388705122	7.139057219	9.40E-13	3.22E-11
Timp1	66.58740151	3.030986163	0.425820255	7.117994335	1.10E-12	3.29E-11
Trem2	118.9611134	2.417513441	0.344579355	7.015839483	2.29E-12	6.10E-11
Grn	627.1273883	1.943703449	0.290276185	6.696048613	2.14E-11	5.14E-10
C3ar1	69.47493092	2.31126638	0.392180351	5.89337629	3.78E-09	8.26E-08
C4a	775.3807495	1.795361808	0.326157951	5.504577779	3.70E-08	7.40E-07
Ly86	336.5940275	1.794061385	0.333482447	5.379777561	7.46E-08	1.38E-06
Fcgr2b	195.5121425	1.609234093	0.313225771	5.137617149	2.78E-07	4.77E-06
Ptgsd	10825.8052	-1.179476346	0.240509713	-4.904069495	9.39E-07	1.50E-05
C3	248.6508681	1.813808319	0.38776226	4.677629844	2.90E-06	4.35E-05
S100a8	549.8719864	-2.392183514	0.519431079	-4.605391576	4.12E-06	5.81E-05
Hspb1	534.9665176	1.769530901	0.401359284	4.408845068	1.04E-05	0.000136035
Gusb	112.609631	1.518335279	0.34498856	4.401117763	1.08E-05	0.000136035
Gfap	3410.380911	1.651688483	0.381027374	4.334828924	1.46E-05	0.000175048
Lyz2	257.9224335	1.342071083	0.310533452	4.321824505	1.55E-05	0.000176851
Cx3cr1	201.9408027	1.27397943	0.317030406	4.018477115	5.86E-05	0.000639005
Fcgr3	65.14747521	1.543576633	0.396804751	3.890015504	0.000100238	0.00104596
B2m	1981.36537	1.217589179	0.318778289	3.819548637	0.000133696	0.001336961
S100a9	78.52184708	-2.154741077	0.576931247	-3.734831644	0.000187841	0.001803272
Fcer1g	62.74375319	1.555881582	0.426854019	3.644996915	0.000267395	0.002468262
Igfbp3	149.6278667	-1.188148227	0.329994458	-3.600509636	0.000317594	0.002823058
Ctsc	108.7262571	1.183808671	0.329836855	3.58907336	0.000331855	0.002844475
Ptpn6	59.13899707	1.474575666	0.412896576	3.571295455	0.00035522	0.002939751
Mpo	31.67806764	-2.049301138	0.578289697	-3.54372756	0.000394513	0.003156101
ApoE	9393.689621	1.003742488	0.28987114	3.462719637	0.000534745	0.004135961
Abca1	259.2447004	1.061550861	0.307301488	3.454427988	0.000551461	0.004135961
Fcgr1	56.28852381	1.471477282	0.427637244	3.440947444	0.000579681	0.004215863
Hprt1	1223.295433	-0.913442629	0.269869288	-3.384759479	0.000712406	0.005028752
Csf1r	176.0710446	1.034508147	0.316485909	3.268733666	0.001080299	0.007407767
Cd55	136.4821938	-1.83355111	0.573336378	-3.198037281	0.001383664	0.009095894
Ccnd1	90.78776286	1.162277951	0.364162898	3.191642965	0.001414661	0.009095894
Aqp4	1212.528103	0.949026398	0.297829618	3.186474218	0.001440183	0.009095894
Tubb3	1227.926364	-1.13501952	0.35817484	-3.168897963	0.001530181	0.009416499
Ptprc	49.06117425	1.310876144	0.416294875	3.148912519	0.001638792	0.009832755
Itgb2	72.55311175	1.219863527	0.399258452	3.05532299	0.002248183	0.012973886
Syp	617.6048883	-0.869221083	0.284769356	-3.052368748	0.00227043	0.012973886
Ptafr	20.65507704	1.775337644	0.590214238	3.007954621	0.002630124	0.014679762
Itgam	60.37958929	1.337102932	0.44770883	2.986545815	0.002821486	0.015389921
Ftl	742.3608177	0.801337413	0.26914468	2.977348138	0.002907536	0.015506861
Il4	14.57849517	-2.267653847	0.76841011	-2.951098402	0.00316646	0.016520662
Ccl2	35.94085902	1.495629473	0.511543557	2.923757816	0.003458337	0.017659593
Map2k4	631.1308136	-0.909560761	0.313781967	-2.898703103	0.003747095	0.018735477
Tgfb1	61.78040929	1.158978381	0.405843471	2.85572755	0.004293834	0.021031025
Igfbp5	177.7400209	-1.090074547	0.383380265	-2.84332462	0.004464557	0.021429875
Tubb5	716.2203498	-0.837355919	0.29566918	-2.832070353	0.004624767	0.02176361
Vwf	143.6181735	-0.900558643	0.322529081	-2.792178119	0.005235453	0.024163628
Calb	95.48406742	-1.14748914	0.41353807	-2.774808956	0.005523414	0.025011688

Msr1	16.8714202	1.748222853	0.636546872	2.746416531	0.006025022	0.026436778
SCNA_h	11543.4386	-0.861812814	0.314002812	-2.744602218	0.006058428	0.026436778
Mmp9	21.17772447	-1.583257708	0.600027914	-2.63864009	0.00832393	0.035673986
Cxcr2	19.3987441	-1.641785084	0.625637587	-2.624179107	0.00868581	0.03657183
Csf1	205.7948923	0.92576578	0.355611018	2.603310169	0.009232838	0.038204848
Ccl19	31.32642684	-1.395643884	0.53956373	-2.586615456	0.009692369	0.039426587
Tlr9	14.27391394	1.779994205	0.690412774	2.57815943	0.009932816	0.039731263
Gls	480.9485754	-0.764776377	0.297488582	-2.570775565	0.010147106	0.039923041
Th	12.81349236	-2.497628251	0.985286673	-2.534925438	0.011247126	0.043537263
Snap91	674.1097348	-0.730460305	0.289150453	-2.52622916	0.011529425	0.043921618
Sod1	2250.664471	-0.714077519	0.292071058	-2.444875997	0.014490195	0.054338232
Dnm1l	428.3759071	-0.667013775	0.279321493	-2.387978698	0.016941324	0.061986444
Itgax	8.031928128	2.305265522	0.967463689	2.38279281	0.017181862	0.061986444
Scna	404.4602073	-0.787884376	0.331019904	-2.380172208	0.017304549	0.061986444
Tnfsf1a	125.0461588	0.755336985	0.323787285	2.332818553	0.019657671	0.068513932
Mapk8	205.0472633	-0.805036345	0.34520458	-2.332055806	0.019697756	0.068513932
Serpina1a	161.1634872	-0.696791257	0.302374965	-2.304394668	0.021200499	0.072687425
Gapdh	6331.883202	-0.601605826	0.261722779	-2.298637616	0.021525526	0.07276234
Trf	11294.12354	0.770767781	0.347533513	2.217822889	0.026566911	0.088556369
Hmox1	63.8188783	0.862162983	0.39067703	2.206843292	0.027325009	0.089835647
Cd14	20.78988102	1.28012905	0.58927414	2.172382873	0.029826796	0.096735554
Limk1	282.3902219	-0.844828798	0.390400799	-2.164003766	0.03046406	0.097484993
C2	31.9948017	-1.083258259	0.501885016	-2.158379359	0.030898349	0.097573734
Arg1	18.47790879	-1.290589115	0.60788836	-2.123069301	0.033748045	0.105188712
Ctsb	230.8006684	0.609469379	0.304588036	2.000962964	0.045396381	0.138499506
Ccl5	15.3537254	1.617125423	0.808896375	1.999175017	0.045589421	0.138499506
Tlr1	9.657815001	1.557788656	0.799946414	1.947366259	0.05149084	0.154472521
Marco	16.0098829	-1.358693661	0.70701906	-1.921721405	0.054640822	0.161898733
Tgfb3	68.51475205	-0.835021736	0.437676648	-1.907850783	0.056410505	0.162903563
Trem14	13.25343428	-1.331036856	0.698797712	-1.90475274	0.05681222	0.162903563
Cxcl5	25.53366991	-1.255792762	0.659837031	-1.903186248	0.057016247	0.162903563
Ptgs2	25.02641306	-1.029197965	0.544274117	-1.890955187	0.058630327	0.165544452
Ppp1r2	403.7240795	-0.590389351	0.314065314	-1.879829849	0.060131271	0.167808198
Clu	5820.825749	0.582539287	0.310853775	1.873997793	0.060930729	0.16808477
Dlg4	270.3651288	-0.662788376	0.355303718	-1.865413567	0.062123457	0.169169505
Tgfb1	196.2073859	0.555625691	0.29855106	1.861074254	0.062733691	0.169169505
Casp8	37.33739129	0.846852117	0.459076972	1.844684375	0.065083465	0.173555907
Ncf1	53.41984008	0.785371037	0.435710265	1.80250754	0.07146559	0.188480676
Tardbp	342.6618183	-0.552443314	0.308542078	-1.790495861	0.073374232	0.191411104
Chil3	12.38669692	-1.51120912	0.849762646	-1.77838968	0.075339876	0.193649445
Trem1	17.17294813	-1.308673943	0.737150635	-1.775314137	0.075846032	0.193649445
Ccr4	16.30842937	-1.370472313	0.784330509	-1.74731481	0.080582746	0.203577462
Bsn	95.63553621	-0.722828419	0.416945325	-1.733628792	0.082983968	0.204483033
Serping1	47.04288563	-0.82936089	0.478629342	-1.732783214	0.083134207	0.204483033
Mme	61.5117462	-0.683381585	0.3948482	-1.730745094	0.083497239	0.204483033
Creb1	90.10226364	-0.605797616	0.35263988	-1.717893098	0.085816116	0.208039069
Ace	89.40349693	-0.617756124	0.366971411	-1.683390328	0.092299554	0.214657097
Cxcl10	36.63502215	0.91332606	0.543551755	1.680292725	0.092900376	0.214657097
Ms4a6d	41.19158229	0.7918936	0.471363674	1.680005575	0.092956231	0.214657097
Crhr1	23.24998845	-0.907345321	0.540538262	-1.67859592	0.093230822	0.214657097
Igfbp4	146.9639961	-0.553042104	0.329741818	-1.67719735	0.093503897	0.214657097
Arc	33.58658056	-0.807840748	0.48247618	-1.674364005	0.094059083	0.214657097
Plg	15.34769777	-1.191730705	0.713368239	-1.670568775	0.094806884	0.214657097
Ccl21b	5.010252623	-2.020616028	1.215062151	-1.662973393	0.096317762	0.215072798
Npy	81.23790272	-0.778284278	0.468661032	-1.660654984	0.096782759	0.215072798
Fcgrt	134.5931683	-0.508274257	0.313712191	-1.620192877	0.105190851	0.231612883
Mertk	70.88025035	0.590320786	0.366757248	1.609568151	0.107492166	0.233022352

Ece2	268.3090353	-0.538976698	0.335125177	-1.608284709	0.107772838	0.233022352
Ccl7	20.9250585	-0.903099461	0.569720558	-1.585162144	0.112929499	0.240888717
Prph	224.8059641	-1.656787358	1.046603575	-1.58301328	0.113418437	0.240888717
Cltc	3142.253506	-0.468079956	0.297387968	-1.573970727	0.115494217	0.24314572
Ccr1	21.63825776	-0.945355195	0.610339556	-1.54890042	0.12140566	0.252976319
Ccl3	27.96878825	0.835243457	0.542403109	1.539894301	0.12358612	0.252976319
Tlr7	29.27726604	0.785125125	0.510882874	1.536800636	0.124342138	0.252976319
Myc	32.0323488	0.745465626	0.485125155	1.536645992	0.124380023	0.252976319
Ide	162.9568153	-0.491165796	0.321731353	-1.526633298	0.126852222	0.255836415
Ubqln1	103.9216591	-0.556373774	0.367028809	-1.515885838	0.129548222	0.259096444
Ppp2ca	1616.822101	-0.440564779	0.29689798	-1.483892816	0.137837358	0.271782435
Hck	10.2334753	1.177349966	0.794062016	1.482692714	0.138156071	0.271782435
Pink1	678.5739658	-0.519659167	0.353740328	-1.469041341	0.141821576	0.276725027
Bace1	355.079073	-0.466102843	0.322093874	-1.447102476	0.147868225	0.284117557
Zbp1	18.27605475	0.919584303	0.635637891	1.446710958	0.147977894	0.284117557
Egr1	78.0507044	-0.591712783	0.412071912	-1.43594544	0.151017867	0.28765308
Cebpd	13.6778219	0.989884862	0.693788279	1.426782338	0.153642644	0.290348303
Crh	21.4966041	-0.795087798	0.561632365	-1.41567304	0.156871255	0.292422667
Stat3	350.0977104	0.485710176	0.343348	1.414629402	0.157177183	0.292422667
Igf1	54.44201694	-0.625100272	0.44383854	-1.408395658	0.159013944	0.293564205
Card9	28.57760427	-0.731890674	0.527203008	-1.388252083	0.165060298	0.302317844
ITM2b_h	3.534688128	-1.814426797	1.310743273	-1.384273209	0.166274814	0.302317844
Lrrk2	39.19579775	-0.592516054	0.436312664	-1.358007921	0.174461171	0.31481715
Flii	206.4162265	-0.425732664	0.31472394	-1.352717764	0.176145813	0.315485038
Atp13a2	24.58534156	-0.741642397	0.555722748	-1.334554687	0.182022137	0.32177972
S100a11	457.0152013	0.449139793	0.336792769	1.333579084	0.182341842	0.32177972
Mfn1	150.030143	-0.430778151	0.329477889	-1.307456937	0.191057571	0.334699395
Cfb	12.21944164	0.9621459	0.740865151	1.298678848	0.194054166	0.337485506
Ccl8	14.27775277	1.057545888	0.822187735	1.286258409	0.198352892	0.340305739
Cfl1	1496.31922	-0.37655061	0.29367364	-1.282207727	0.199769786	0.340305739
Pgk1	2698.011735	-0.367280642	0.286545769	-1.281752102	0.199929622	0.340305739
Il1r1	52.22503068	-0.521488382	0.413232873	-1.261972162	0.206958804	0.349789528
Map2k6	30.07316775	-0.600378558	0.481564805	-1.246724328	0.212498595	0.356640999
Aifm1	136.0597781	-0.444572851	0.361202599	-1.230812991	0.218392816	0.363988026
LRRK2_h	16.78655151	-0.78945272	0.644255669	-1.225371786	0.220435172	0.364858216
Mef2c	106.9773159	0.396433352	0.332013661	1.194027231	0.232467316	0.38168432
Entpd1	63.10388552	0.480908886	0.403896403	1.190673854	0.233781646	0.38168432
APP_h	3025.51307	-0.343652724	0.292521839	-1.174793394	0.240077384	0.389314676
Cd36	35.09356285	-0.60472302	0.528829928	-1.143511341	0.252826349	0.4069183
Cd163	25.72165432	-0.584563858	0.512815949	-1.139909667	0.254323937	0.4069183
Cxcl9	23.14794283	-0.676626426	0.603944479	-1.120345411	0.262566598	0.416715003
Ly96	32.67282591	0.541275046	0.484503358	1.117175014	0.263919502	0.416715003
Mmp2	45.01547102	-0.533251754	0.483803508	-1.102207292	0.270371563	0.424112255
Ackr3	32.55075593	-0.519601823	0.482690311	-1.076470382	0.28171694	0.439039387
Tnfrsf1b	10.04799451	-0.919714574	0.862163726	-1.066751645	0.286083999	0.442968773
Igfbp2	321.7760219	0.322244182	0.307342279	1.04848634	0.294414592	0.452945527
Fos	56.2544845	0.427510713	0.416166597	1.027258594	0.304298714	0.465170009
Tlr4	21.06072282	0.639314261	0.640994849	0.997378158	0.318580989	0.483166504
Mef2b	6.82982584	-0.927860112	0.934807089	-0.992568545	0.32092026	0.483166504
Maff	11.59065012	0.698116054	0.70507576	0.990129138	0.322111003	0.483166504
Lrp1	708.7850882	0.360448258	0.366224502	0.984227587	0.325003624	0.484477453
Grin2a	69.12312256	-0.482891779	0.497213432	-0.971196167	0.331450602	0.49103793
Casp1	26.8451647	0.543727635	0.575465694	0.944848044	0.34473646	0.50392149
FTL_h	4.888996953	1.04430109	1.116152962	0.935625425	0.349466079	0.50392149
Il10	2.911398641	-1.363044481	1.457388105	-0.935265271	0.349651608	0.50392149
Ms4a4a	7.730174816	0.809938281	0.873461088	0.927274601	0.353783978	0.50392149
SOD1_h	5.159170042	0.962389631	1.038562488	0.92665549	0.354105434	0.50392149

Tnfsf9	3.926141761	-1.099548973	1.189595995	-0.924304535	0.355327782	0.50392149
Myl2	6.123325679	-0.905914388	0.982661032	-0.921899168	0.356581173	0.50392149
Tlr2	17.8898174	0.593355976	0.64410982	0.921203121	0.356944389	0.50392149
Eif2s1	177.9050037	-0.345340809	0.384937891	-0.89713384	0.369647503	0.518803514
MAPT_h_ex1	9.779331495	-0.740763279	0.830146242	-0.892328654	0.3722168	0.519372279
Dock2	10.38878769	0.664424252	0.753950078	0.881257621	0.378178398	0.524640552
Alox5	25.68591062	0.480004979	0.565151406	0.849338732	0.395692835	0.544216236
Cat	537.5384425	-0.268347338	0.31670636	-0.847306439	0.396824339	0.544216236
Cd33	17.11051892	0.494335693	0.620659404	0.796468545	0.425759751	0.580581479
Sox10	161.991883	-0.241854077	0.309971428	-0.780246356	0.435245882	0.590163907
App	1913.656561	-0.234937714	0.310117345	-0.757576825	0.448704358	0.60499464
TARDBP_h	2.456902106	1.088344926	1.462183071	0.744328769	0.4566776	0.609899046
Nlrp3	9.76861577	0.588569667	0.794006636	0.741265426	0.458532521	0.609899046
Ltbr	52.89774594	0.289121086	0.3912839	0.738903609	0.45996553	0.609899046
Mmp11	18.40844027	0.423459582	0.598404539	0.707647676	0.479164078	0.63156013
Alox5ap	23.57970374	-0.386713429	0.549474053	-0.703788336	0.481564599	0.63156013
APOE_h	4.011681369	-0.812653394	1.186551002	-0.684887032	0.49341521	0.642892096
Tnfsf11	20.77296875	-0.382222805	0.560864925	-0.681488159	0.495562657	0.642892096
P2ry12	152.4834625	0.236975096	0.351624399	0.673943834	0.500347022	0.645609061
Ifih1	32.76349915	0.318234443	0.478324835	0.665310308	0.505852039	0.649221868
MAPT_h_ex10	9.676389329	-0.498653893	0.772061877	-0.645872963	0.51836163	0.661738252
Ubc	1413.323755	-0.192978194	0.302135362	-0.638714359	0.52300877	0.662407971
Il7	9.17580725	-0.51393154	0.807347502	-0.636567945	0.52440631	0.662407971
Mafk	23.94740586	0.325987564	0.525781823	0.620005389	0.535254239	0.672570771
Il1rn	5.414091671	0.605812413	1.012008079	0.598624087	0.54942359	0.685640151
P2ry6	31.5023376	0.289077798	0.485353	0.595603196	0.551440341	0.685640151
Mrc1	49.28592898	-0.257669045	0.435664037	-0.591439787	0.554225788	0.685640151
Adam10	444.8717527	-0.174722611	0.30168766	-0.57915067	0.562487513	0.692292324
Ptger4	10.4736183	0.430083544	0.758020424	0.56737725	0.570457903	0.698519881
Axin1	29.06379798	-0.271693919	0.495706762	-0.548094033	0.583627337	0.711018076
Trem1	2.847925952	-0.711585718	1.342806427	-0.529924272	0.596164437	0.721231862
Ccl4	15.14246457	0.346351552	0.656904511	0.527247943	0.598021419	0.721231862
Mapt_ex1	271.5393367	-0.168828805	0.324853561	-0.519707417	0.603267516	0.723069011
Adam17	115.5392567	0.166524422	0.322467504	0.51640683	0.605570296	0.723069011
Ccl11	12.60712687	-0.474492505	0.948625737	-0.500189365	0.616941746	0.733000094
Hspb2	18.88749546	-0.28578301	0.584162884	-0.489218021	0.624687353	0.738546624
Ece1	110.2331408	-0.205287588	0.426784299	-0.481010169	0.630509271	0.741775613
Prkcb	360.3996508	-0.170300736	0.384908739	-0.442444452	0.658167618	0.768678996
Masp2	2.495662589	-0.678319579	1.54088928	-0.440213056	0.659782805	0.768678996
GRN_h	2.09631321	0.68109152	1.567483395	0.43451275	0.663916139	0.769757842
Fcgr4	36.36103401	-0.186415661	0.477134412	-0.390698419	0.696020167	0.803100193
Mapt_e9	43.48629385	-0.164969984	0.432252794	-0.381651632	0.702719781	0.806950945
Tnf	2.38494146	0.52968972	1.477878281	0.358412277	0.720034805	0.82289692
C1ra	40.96699992	0.152628295	0.44039589	0.346570661	0.72891389	0.829096368
Gjc2	216.1963225	-0.159674935	0.467361728	-0.341651713	0.732613015	0.829373225
H2Eb1	28.87723161	-0.188939005	0.566769157	-0.33336148	0.738861436	0.832519928
Gba	97.61836261	0.107160391	0.331259274	0.32349401	0.746321143	0.836053796
Ccl17	10.70478218	-0.279835213	0.874472525	-0.32000458	0.748964859	0.836053796
Mbl2	3.341302897	-0.390960971	1.262250563	-0.309733252	0.756763814	0.840848683
Nos2	3.231944231	-0.407341963	1.33645939	-0.304791874	0.760524671	0.841133276
Bdnf	19.46811516	-0.170148774	0.616250806	-0.276103127	0.782468859	0.861433607
Il12a	4.488576588	-0.320655836	1.222672733	-0.262258107	0.793122458	0.869175296
Plat	185.1691614	0.073367614	0.304601874	0.24086396	0.809660555	0.875058529
C1s1	16.12105577	0.17299739	0.722324189	0.239501034	0.810717095	0.875058529
IL6ra	36.36348287	0.107035252	0.45158955	0.237018885	0.81264214	0.875058529
IL6	5.638243616	-0.233881596	0.990429357	-0.236141623	0.813322777	0.875058529
Crp	4.914457681	-0.244642467	1.055567011	-0.231764033	0.816721294	0.875058529

Cxcl15	4.572044739	-0.239306312	1.109488856	-0.215690595	0.829228933	0.884510862
Ifng	3.511393911	-0.232330204	1.218998638	-0.190591028	0.84884602	0.901429402
Ptger1	4.8140964	0.194024498	1.120735581	0.173122458	0.862555173	0.911952606
Cxcr4	39.44216834	0.067130977	0.491928687	0.136464855	0.891453806	0.9318997
C5ar1	14.67748826	0.086167459	0.642593545	0.134093253	0.893328835	0.9318997
Il1a	6.86136892	0.138875175	1.073953534	0.129312089	0.897110706	0.9318997
Tlr8	2.439809408	0.189583093	1.466581895	0.129268671	0.89714506	0.9318997
Mmp3	3.622888436	0.148703361	1.193399316	0.124604866	0.900836376	0.9318997
Stat6	59.69079943	-0.047186435	0.423950066	-0.111301869	0.911376974	0.938757398
Il1b	5.815769985	-0.07884296	0.99058357	-0.079592436	0.936561411	0.960575806
Jak3	17.40139333	0.031607714	0.590680021	0.053510721	0.957324989	0.977693606
H2-Ea-ps	24.61555869	-0.076904184	1.779341967	-0.043220575	0.965525704	0.981890546
IL10rb	117.0078367	-0.01092374	0.319956112	-0.034141371	0.972764418	0.985077892
Tlr6	12.5547107	0.020349133	0.711332757	0.028607052	0.977177988	0.985389567
Trem12	6.633700269	0.014535531	0.957589287	0.015179296	0.987889139	0.990777724
Itm2b	3026.650505	-0.003021764	0.261428465	-0.011558666	0.990777724	0.990777724

Supplementary Table 9: Overlapping gene expression changes in IL-10 expressing α Syn-seeded M83+/- mice vs control α Syn-seeded M83+/- mice

Base Mean=gene counts normalized to library depth; lfcSE-log (Fold Change) Standard Error; stat=Wald test statistics

IL-10 expressing α Syn-seeded hemizygous M83 mice

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
Serpina3n	1107.7152	2.316968978	0.6005363	3.8581662	0.0001142	0.0139634
Cd68	181.90374	1.995619209	0.5240668	3.8079482	0.0001401	0.0139634
Hspb1	806.78249	1.685366789	0.4490395	3.7532706	0.0001745	0.0139634
Fcrls	268.04524	1.834853398	0.5056481	3.6287161	0.0002848	0.0152826
Timp1	107.14074	2.218824137	0.616364	3.5998603	0.0003184	0.0152826
Mmp9	35.533296	-1.744481496	0.4932617	-3.5366244	0.0004053	0.016211
Msr1	47.537463	1.977648787	0.5920265	3.3404733	0.0008364	0.0286751
Il10	4529.896	-6.711111992	2.0589761	-3.2594415	0.0011163	0.0307374
Lyz2	591.26697	1.798948023	0.5534639	3.2503442	0.0011527	0.0307374
Ctsd	10165.057	1.517428312	0.4729329	3.2085489	0.0013341	0.0320176

Control α Syn-seeded hemizygous M83 mice

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
Serpina3n	786.00194	3.008151559	0.4061065	7.4072979	1.29E-13	5.16E-12
Cd68	97.513795	2.912921634	0.3886413	7.4951424	6.623E-14	3.179E-12
Hspb1	534.96652	1.769530901	0.4013593	4.4088451	1.04E-05	0.000136
Fcrls	116.98676	2.774988108	0.3887051	7.1390572	9.397E-13	3.222E-11
Timp1	20.747191	2.122012956	0.5998137	3.5377867	0.0004035	0.0100365
Mmp9	21.177724	-1.583257708	0.6000279	-2.6386401	0.0083239	0.035674
Msr1	16.87142	1.748222853	0.6365469	2.7464165	0.006025	0.0264368
Il10	2.9113986	-1.363044481	1.4573881	-0.9352653	0.3496516	0.5039215
Lyz2	257.92243	1.342071083	0.3105335	4.3218245	1.547E-05	0.0001769
Ctsd	5819.1543	2.154739123	0.2710185	7.9505233	1.857E-15	1.486E-13

Supplementary Table 10: List of antibodies used in the study

Antibody	Host/Source	Vendor	Catalog	Dilution	Antigen Retrieval
anti p62	Rabbit	ProteinTech	18420-1-AP	1:2000	Steam
anti GFAP	Rabbit	Cell signaling	80788S	1:1000	Steam
anti GFAP	Mouse	Abcam	ab190288	1:1000	Steam
anti cd11b	Rabbit	Abcam	ab133357	1:1000	Citrate, pH 6.0
anti cleaved caspase 3	Rabbit	Cell signaling	9664S	1:250	Citrate, pH 6.0
anti MAP1LC3B	Rabbit	Cell signaling	3868S	1:4000	Steam
anti Tyrosine hydroxylase	Rabbit	Millipore	AB152	1:1000	Steam
anti CD68	Mouse	Abcam	ab201340	1:200	Steam
anti Choline acetyl transferase	Goat	Millipore	AB144P	1:500	Steam
anti Myelin Basic Protein	Rat	Abcam	ab7349	1:500	Steam
anti pSer129 α Syn (Clone 81A)	Mouse	In house (Ref. 26)	N/A	1:10,000	Steam
anti α Syn C terminal (clone 15-4E7)	Mouse	In house (Ref. 26)	N/A	1:10,000	Steam