

Fig. 1a

Controls	Knockout
0.72724	0.218341
-0.00364	0.16539
0.017547	0.146425
-0.43283	0.070158
0.589257	-0.32298
0.266396	0.091889
0.47378	0.042556
-0.0314	0.518006
0.385212	-0.03523
0.179812	-0.24516
0.039435	-0.01279
0.243665	0.061539
-0.02868	-0.08047
0.213646	-0.17491
0.424143	0.27027
0.405252	0.092915
0.48103	-0.0104
0.412469	0.260628
0.104293	
0.460221	
0.306968	
0.038112	
0.389071	
0.325502	
0.501	
-0.61259	
0.619215	
0.106294	
-0.0095	
0.699495	
0.184894	
0.462052	
-0.42535	
0.544791	
0.444659	
0.327952	
0.34373	
0.3803	
0.17035	

Fig. 1b

Controls	Knockout
53.3	23.5
50	35.7
54.5	26.7
37.5	40
36.4	12.5
	25

Fig. 1c

Controls	Knockout
70	60
80	60
70	70
70	100
80	80
	50

Fig. 1d

Controls	Knockout
1195.56	959.25
697.62	823.03
839.49	651.99
399.6	1412.29
1003.32	706.21
840.93	1609.8
284.1	2525.3
466.87	1394.86
582.92	1881.45
958.62	
329.04	
833.23	
1535.23	
956.02	
295.92	
1173.59	
815.28	
851.33	
441.89	
939.15	
1479.9	
431.4	
727.74	
379.1	

Fig. 1e

Controls
0
0
0

Knockout	Fig. 1f	Female controls	Female knockout	Male control	Male knockout
3.6		22.8	20.5	23.4	19.5
1.9		24.4	19.7	22.3	23.2
7.75		21.5	23.5	27.5	22.4
		19.8	18.9	24.7	21.3
		21.3	16.6	27.9	
			19.5	23.4	

Fig. 1g

Controls	Knockout
158	67
191.7	58.7
224	52
176	47
204.5	51
160.5	107
70	10.5
	22

Fig. 1h

Controls	Knockout
23.33333	12.66667
27.7	12.3
31.33333	11.5
26.5	10
29.5	11.5
24	17.5
13.66667	6
	7.66667

Fig. 1i	Days	Controls	Knockout
	77	0	1
	80	0	1
	86	0	1
	89	0	1
	91	0	1
	93	0	1
	94	0	1
	97	0	1
	97	0	1
	99	0	1
	100	0	1
	101	0	0

Fig. 2b	Overexpression	Normal	Low	Deficient	Very deficient	
Purkinje	4	3	11	23	62	Purkinje
TRN	0	6	9	12	73	TRN
ML cerebellu	0	23	26	21	30	ML cerebel
Deep cerebe	9	36	16	14	25	Cortex
Cortex	3	70	16	6	5	Deep ceret
Hippocampu	2	76	18	4	0	Hippocamp

Overexpression	Normal	Low	Deficient	Very deficient
0	5	19	26	51
0	45	31	16	9
0	62	29	7	2
5	75	8	3	10
24	64	8	2	3
0	95	4	2	0

Fig. 2d
Purkinje
TRN
Cortex
Hippocamp

Overexpression	Normal	Low	Deficient	Very deficient	
0	79	19	2	0	Purkinje
0	95	5	0	0	TRN
0	72	19	9	0	Cortex
0	81	19	0	0	Hippocamp

Overexpression	Normal	Low	Deficient	Very deficient	
0	6	30	39	25	Fig. 2f
0	46	30	13	11	Purkinje
0	77	21	2	0	TRN
0	95	0	5	0	Cortex
					Hippocamp

Overexpression	Normal	Low	Deficient	Very deficient
7	84	4	4	1
2	98	0	0	0
0	100	0	0	0
9	91	0	0	0

Fig. 3b

Controls	Knockout
-2.11051	-0.74236
-1.90315	-1.03746
-0.43339	-1.7918
-1.79299	-1.52145
-1.79016	2.247558
-2.00984	-1.8274
-2.09101	-2.49038
-2.19952	-1.92185
-1.33551	-1.78979
-0.57335	-2.61276
-0.48058	-1.36643
-0.64313	-2.40146
-0.21681	-2.3102
-1.09269	-1.03144
-0.20778	-1.85796
-0.59674	-1.00757
-3.60038	-0.68757
-1.42785	-2.79528
-0.88813	-2.78437
-0.69672	-1.90797
-0.80168	-1.4691
-1.04053	-0.29454
-0.96624	-1.29223
-1.68021	-1.39947
-0.63558	-2.56233
0.538212	1.158902
-1.93639	-2.22194
-2.36541	-0.92884
-0.4946	-1.77048
-0.03369	-1.61815
-1.93203	-1.90301
-1.1162	1.444662
-0.64094	-0.84545
-0.75034	-2.28548
-0.62309	-1.7054
-0.81415	-0.27881
-0.93739	-1.75085
-1.52687	1.774817
-1.4399	-0.48845
-1.4867	-0.39194
-1.22687	-2.91096
-0.66702	-2.44925
-1.21276	-1.16943
-1.18064	0.045429
-1.17517	-0.86192
-1.01025	-1.66128
-0.51932	-2.70539
-1.86115	-1.71367
-1.66665	-2.14349

Fig. 3c

Controls	Knockout
0.049534	-1.72694
-0.11967	-1.72467
-0.20408	-1.95695
0.096173	-1.49092
0.055802	-1.90441
-0.08638	-2.11276
0.113626	-2.43189
-0.01145	-1.40139
0.49111	-2.19883
0.274088	-1.94513
0.732983	-2.59444
0.915683	-2.20259
0.451085	-0.61243
0.562248	-2.13992
1.201392	-2.3449
0.525085	-2.11356
0.036216	-0.25674
0.258242	-0.85539
0.251183	-1.13171
0.678458	-1.09821
0.52151	-1.01782
0.067234	-1.00006
0.347223	-0.85397
0.343752	-1.55061
0.416408	-1.31772
-0.16896	-1.31897
-1.77052	-1.049
-1.42855	-0.52215
-0.71294	-0.94893
-0.89792	-0.97902
-0.75472	-0.59864
-0.98037	-0.98602
-1.25716	-0.98862
-0.56853	-0.94045
-1.27229	-0.48088
-1.20034	-1.0639
-1.03624	-1.40023
-1.63925	-1.39051
-1.66053	-2.50203
-0.74115	-2.62589
-0.75082	-2.53966
-0.66297	-2.59591
-1.29766	-2.6952
-1.72764	-1.56836
-1.18999	-1.91279
-0.51705	-2.68061
-0.54422	-1.7424
-1.485	-3.26736
-1.4871	-2.59278

-0.74467	3.283572	0.030575	-1.85358
-1.90497	-0.72897	-1.40536	-2.51153
-0.86436	-0.95345	-0.47333	-2.97642
-1.52492	-1.40326	-1.10571	-2.29123
-1.95466	-2.57714	-1.60021	-3.11318
-0.85714	-2.2187	-0.95788	-2.36252
-1.30814	-2.56792	-0.36241	-2.67193
0.003654	0.378315	-0.10848	-2.87484
-0.81993	-0.78597	0.089248	-2.43926
-0.3503	-1.65273	0.181338	-3.37407
0.037853	-0.90743	0.251882	-3.05444
-1.53486	-1.16568	-0.17453	-2.3328
-0.40479	1.4556	0.277171	-1.66192
-0.61698	-2.27534	0.293081	-2.55182
0.054131	-3.17727	0.683911	-2.78565
0.034977	-0.5499	0.524156	-2.03603
-0.39806	-1.96147	0.530369	-0.92743
-0.29575	1.03138	1.180606	-2.00309
-0.59296	-0.9241	0.108927	-2.04833
-1.04606	-2.4354	0.077073	-1.61659
-0.78476	-1.38828	0.5969	-1.45372
-0.54216	-1.89637	-0.11646	-1.52668
0.563316	0.015662	1.244356	-2.08646
-0.39575	-0.75537	-0.03763	-1.63759
-1.23381	-2.60566	-0.33893	-1.73416
-0.13753	-1.14843	0.146093	-2.28267
-0.42384	-1.21427	0.193451	-1.50624
-0.52101	-0.45203	1.154909	-2.49631
-0.62404	-2.0386	-0.07513	-1.35821
-0.261	-1.14437	0.296069	-2.56949
-0.3463	-0.58467	0.066167	-1.86876
-0.67317	-1.89807	-0.29877	-1.86375
-0.16174	-0.42087	0.300586	-1.7107
-0.55872	-0.0874	0.117429	-2.14891
-0.05505	-2.22379	0.600255	-1.68001
-1.05852	-2.05556	0.643003	-2.11658
-0.54731	-1.63788	-0.18266	-1.29753
-0.65562	-0.86172	0.358893	-1.55155
0.348027	-0.27688	0.027003	-1.04313
-0.18621	-1.40698	0.169579	-0.39475
0.057696	-0.54759	0.389266	-2.53894
-0.15612	-1.75233	0.541551	-1.7934
-0.15519	-1.42615	0.02908	-1.55504
-1.63146	-1.53463	0.272546	-2.55709
-0.09623	-3.79365	0.896074	-2.43259
-0.20017	0.032772	0.48663	-1.88001
-0.16474	1.012564	0.075599	-1.13029
-0.76657	-1.37178	0.453569	-1.69203
-1.0991	-3.26643	-0.08527	-0.99213
-0.6601	-1.64386	1.159452	-1.37343

-1.75668	-3.63777	0.023011	-2.75206
-0.8768	-2.32745	0.375311	-1.73444
-0.90443	-2.16924	0.812067	-1.60893
-0.82688	-0.3938	0.554112	-1.23246
0.117724	-1.27068	0.860573	-0.98353
-1.09684	-2.85858	0.270076	-1.87424
-0.50201	-1.19831	1.545883	-1.55678
-0.32874	-1.38665	0.018181	-1.22237
-1.161	-0.99617	-0.15216	-2.01666
-0.64006	-1.32733	0.562107	-2.3311
-0.24318	-1.90688	1.36074	-1.32122
-0.72007	1.394921	0.507027	-1.4962
-0.11555	-0.14368	-0.11143	-1.08293
-0.35344	-2.98325	0.491687	-1.50915
-0.15352	-1.3119	0.059919	-2.45405
-0.42239	0.410691	0.582886	-2.03945
-0.72801	-1.0585	0.214405	-2.26513
-1.03774	-1.34127	-0.04136	-1.86212
-1.70602	-1.76507	-0.23525	-1.2912
-2.05166	-0.55011	-0.37629	-2.00895
-1.81636	-1.37975	0.449038	-2.08836
-0.63139	-1.59063	0.460791	-1.82154
-0.24412	0.144764	0.016013	-1.77196
0.082988	-2.76796	0.895947	-1.81324
-0.09765	-0.84227	0.159214	-1.79875
-0.0272	-0.35684	0.390755	-1.97979
-0.07183	0.018676	1.324943	-1.89829
-0.07529	-0.38872	0.467342	-0.96843
0.291279	-2.36119	0.133483	-2.23033
-1.81577	-0.75294	-0.11542	-1.67081
0.43279	0.609309	0.156419	-2.15374
-0.41995	0.786672	0.350842	-1.63525
0.028218	-2.0607	0.093731	-2.03013
-0.17485	-0.43277	0.787808	-1.59993
-0.77294	-1.89771	-0.10675	-1.86537
0.42099	-1.62043	1.642392	-1.98483
-0.90457	-1.91541	0.559208	-1.11122
0.257623	-0.04671	0.767555	-0.65795
-0.59861	1.235033	0.67723	-2.18742
-0.47211	0.021334	0.571491	-2.37973
0.379	-0.82057	0.09096	-2.13735
-0.17181	-1.58	0.340957	-2.03448
1.809998	-1.69725	-0.54383	-1.6828
-1.0002	-3.91346	0.22444	-2.0091
-2.3283	-3.02492	0.736403	-1.61481
0.118756	-2.7877	0.258862	-2.47511
-0.17917	-2.34886	0.47642	-1.4652
-0.66928	-0.6284	0.527085	-1.3236
-0.75065	-0.49868	-0.29007	-2.52394
3.746186	-0.96158	-0.39976	-2.15439

-0.4362	-0.27997	0.307311	-1.05939
0.38314	-1.61139	0.559067	-1.64104
-3.15814	-2.14716	-0.32262	-2.14265
-1.94818	-0.42197	-0.34757	-2.18628
-2.64013	-1.35546	-0.47962	-1.44111
-0.30459	-0.26009	0.544465	-2.08741
-0.86123	0.723005	1.373195	-1.12545
-0.39632	-1.85618	0.519506	-1.25372
-0.61233	-1.83568	0.612734	-2.03044
-0.17814	-0.20536	-0.08106	-2.15955
0.045168	-1.3932	-0.00692	-2.24272
-0.37142	-1.53659	0.06904	-0.32734
0.031155	-2.31425	0.01568	-0.79372
-2.23751	-1.05631	-0.07788	-0.72128
-0.66125	-0.5907	0.755049	-0.87412
5.293804	-1.23882	-0.44885	-0.86158
-0.2648	0.001074	0.067234	-0.23516
-0.77237	-2.5112	0.054977	-0.92399
-1.08314	-1.37932	0.421795	-0.75588
0.072352	-2.73831	0.164241	0.07871
-0.43357	-1.60855	0.339295	-0.47304
-0.12053	-3.1905	2.029255	-1.13431
-0.21743	-0.67301	0.030741	-0.97271
-1.1116	-0.31821	0.784243	-0.64611
-1.72937	-1.42566	0.042013	-0.79543
-2.4073	-1.64442	-0.60457	-1.31859
-0.19359	-2.36558	0.722904	-1.81615
0.642573	-1.17641	0.22021	-1.31834
-0.82511	-1.22908	-0.16059	-0.84812
-0.18536	-1.06994	-0.17346	0.296912
-0.32329	-4.61743	0.32505	-1.82066
0.372537	-1.61281	0.617184	-1.14936
-0.302	-0.85308	0.272083	-0.14663
-1.26849	-2.26037	0.226319	-0.13047
-0.36287	-0.86568	0.511049	-1.00563
-0.38856	-3.02686	0.647206	-0.63278
0.253183	-0.7964	0.648996	-1.48211
-0.21242	-1.98055	0.065263	-0.65806
-0.49116	-0.70401	0.095685	0.053823
-0.0674	-0.39985	-0.27145	-0.80344
-0.3794	0.506547	-0.04688	0.37987
0.0022	-1.66358	0.172681	-0.65489
-0.62042	-0.92425	0.473808	-1.40228
0.057267	-0.80889	0.174589	-0.00616
1.152247	0.013244	-0.27774	0.004819
-0.33283	-1.68977	0.589761	-0.00213
-0.67241	-0.62193	-0.04246	-0.59552
0.511716	-1.47991	-0.25005	-0.79553
-0.63256	-0.60833	0.631884	-0.72336
-1.52486	-2.12458	-0.22061	-0.61264

-2.51033	-1.98829	-0.20337	-0.88025
-0.76608	-3.30339	0.103247	-1.4123
-2.01023	-0.10575	-0.39569	-0.98545
4.334188	-1.73815	-0.52245	-0.06495
3.993614	-1.38312	-0.49478	-0.75451
5.770874	-0.85749	-0.4098	-0.75051
-2.56174	-0.98787	-0.44721	-0.81158
-0.79638	-1.95629	0.485907	-1.56068
-0.85046	-1.40004	0.642107	-0.88638
-0.38604	-2.55562	-0.5844	-0.5843
-0.88386	-1.42362	1.18365	-0.94301
-2.24226	0.079817	-0.44779	-0.87391
-3.00855	-2.52313	-0.60638	-1.14082
-0.74184	-0.25463	0.44289	-1.04141
0.640059	1.379626	-0.2458	-0.95598
-0.77757	-0.75335	-0.0144	-1.36594
0.503013	-0.86206	0.214797	-0.69448
-0.65448	0.043372	0.036879	-0.19136
-0.83932	-1.58022	-0.28348	-0.09483
0.468034	-1.64126	0.024425	-1.2036
-0.26696	0.283759	-0.37169	-0.77077
-0.91067	-0.95385	0.206307	-0.90067
-0.986	-0.67968	0.178243	-1.23624
-1.39688	-1.03603	0.099915	-0.93354
-0.10109	0.008738	0.058025	-0.4475
-0.34546	-0.41859	0.664377	-1.0406
-0.32547	-0.47466	0.043088	-0.79778
0.192728	-0.62034	0.674022	-1.1264
0.453337	-1.57261	0.265285	-0.52618
-1.46627	-0.05286	-0.04756	-0.5312
-1.02263	0.653418	0.048543	-1.20686
-0.72366	1.372888	0.338236	-0.9361
-1.38632	-1.08587	0.242864	-1.39908
-1.20539	-2.72687	0.097882	-1.38642
-0.09794	-2.66501	0.26745	-0.75609
-0.4762	-0.44112	-0.29758	-1.0367
-0.18152	-0.6414	-0.48486	0.192898
-1.80501	-0.75816	0.016597	0.036962
-0.00576	-1.44791	-0.07736	-1.02799
-0.33287	-1.39239	0.285866	-1.15768
-0.44924	-0.57309	0.195505	-0.07128
-0.40407	-2.25787	0.335436	-0.88156
-0.81092	-0.61399	0.405756	-0.76147
0.072405	-2.90164	0.804329	-1.05708
-0.47979	-2.78401	0.221621	-0.4155
-0.81862	-1.63095	0.347223	-1.12392
-0.52047	-2.21709	1.485993	-0.85778
-0.54857	-0.71842	0.467051	-1.19311
-1.54608	-0.88932	-0.22384	-0.17355
-0.62896	-0.06428	0.416999	-1.00404

-1.02053	-0.70286	0.506453	-0.79788
-0.64103	-1.55575	0.47555	0.120339
-0.58688	-0.5925	-0.01869	-0.12829
-1.71882	-1.53713	0.058272	-1.10887
-0.08719	-2.42183	0.379944	-0.35466
-0.86478	-2.63657	0.851848	-0.44769
-0.39022	0.389722	0.161609	-0.59753
-0.73303	-3.11679	0.139111	-0.62619
-0.9768	0.079972	1.12913	-1.23356
-0.80366	-0.68991	-0.29327	-0.65908
-0.18484	0.026717	0.571914	-0.69965
0.276206	-0.96903	0.239437	-0.06888
-0.48493	-2.33137	0.644795	-0.47072
-0.21404	-0.91306	-0.14558	-0.74462
0.023949	-0.92428	0.119531	-1.49791
-0.6031	-1.23773	0.278866	-1.36214
-0.53395	-1.59897	0.995945	-0.16412
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1.919915	-2.29486	-1.52083	-0.33883
2.987454	-1.63824	-1.24956	-1.049

0.931478	-1.94254	-1.33036	0.018347
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0.710222	-0.03167	-0.75493	-0.7483
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0.168158	0.164236	-0.88145	-0.304
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1.499551	-1.49986	-0.39324	-0.25149
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0.298292	-0.75241	-0.15804	-0.27354
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0.167857	-1.86434	-0.16368	-2.16617
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0.591891	-0.35943	-0.40383	-1.15518
0.553305	-1.15024	-1.23953	-0.96181
0.23414	-1.58344	-0.43228	-1.33011
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0.768831	-2.4057	-1.7859	-0.86616
0.127373	-1.77262	-1.57227	-1.49857
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0.279295	-1.21878	-0.61092	-1.17344
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1.008458	-2.41993	0.933787	-1.37445
0.117165	-2.58186	-0.15172	-1.02387
0.042783	-2.29534	0.224049	-0.87784
0.682603	-2.33603	-0.27546	-1.43528
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2.763496	-2.7097	0.447648	-0.50072
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1.80669	-1.78304	-0.06751	-0.86224
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1.440771	-2.32881	0.246132	-1.37852
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0.634276	-2.3149	0.635133	-1.06471
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0.14177	-1.53657	0.483809	-1.79066
0.423911	-2.12047	-0.30713	-1.80483
0.279708	-0.95374	0.702517	-1.50796
	-1.13034		-1.71959
	-2.7501		-2.15117
	-1.87473		-2.21717
	-2.07549		-1.96865
	-2.80836		-2.35584

-1.04103	-1.89979
-2.10804	-1.79095
-0.51409	-1.09436
-1.9966	-1.79052
-1.98323	-1.17236
-2.05081	-3.25361
-1.29687	-3.58027
-0.77731	-3.71431
-1.02799	-2.57132
-1.29559	-3.18881
-1.99851	-3.20229
1.36917	-3.36312
0.084018	-4.01351
-0.24204	-3.92742
0.791639	-3.97466
-1.41108	-3.38575
-1.13058	-3.12289
-1.62039	-3.41018
-1.13209	-2.18449
-2.41292	-2.16181
-0.98511	-1.6722
-2.00474	-1.57795
0.120316	-2.2961
-1.71051	-1.98759
-2.22295	-2.05333
-1.10168	-1.5877
3.272799	-2.92635
-1.3913	-3.03966
-1.5002	-3.81354
-2.10834	-3.62351
-2.22682	-3.46775
-2.58093	-3.65333
-1.14413	-3.66096
-2.71776	-3.02935
-1.69177	-3.21005
-1.55398	-3.34158
-1.41904	-2.46996
1.735813	-2.9172
3.600721	-4.08016
-2.72848	-3.37314
-1.29309	-3.38692
-2.01268	-2.90464
-0.90783	-2.51674
-2.8746	-2.94289
-1.65056	-2.57827
-1.04367	-3.70837
-0.18709	-1.53842
-3.19719	-1.19191
-0.65619	-1.29058
-2.88002	-1.21315

-1.45571	-1.22905
-1.42404	-0.46328
-0.76706	-0.99201
-1.82274	-0.41826
-1.54889	-1.70367
-1.08248	-0.8221
-1.85225	-0.53268
-2.64695	-0.47371
-3.219	-3.58624
-2.58208	-3.72364
-1.53471	-3.44408
-0.82373	-3.80928
-2.59685	-3.17232
-0.05887	-3.57011
-1.69645	-3.28683
-2.1255	-3.01217
-1.32721	-2.99196
-2.19864	-3.31421
-1.7865	-3.18705
-2.31923	-3.44456
-2.722	-3.51999
-2.76045	-4.02428
-2.68875	-3.27663
-2.64681	-3.2857
-1.92622	-2.59186
-2.31371	-2.86543
-2.01364	-3.47279

Fig. 4b	Low	Normal	Overexpression
Controls	2	95	3
Knockout	0	45	55

Fig. 4c	Low	Normal
Controls	2	91
Knockout	0	58

Overexpression

7

42

Fig. 4e

Controls

Knockout

-1.26228 1.660603

-0.68916 0.65689

0.420267 0.24229

0.161956 -0.45101

0.795978 1.797767

1.065844

Fig. 4g

Controls	Knockout
0	2.29
0	1.69
0	0.39
0	0.146
	0.57
	2.47

Fig. 4h

Controls	Knockout
0	14.166
0	9.327
0	3.339
	25.076
	0
	0

Fig. 5b

Controls	Knockout
35.98828	31.25298
36.90037	23.84957
37.04126	28.72268
33.81112	30.20159
35.01331	

Fig. 5d

Controls	Knockout
1142	1127
1132	743
907	729
819	730
1030.555	

Fig. 5e

Controls	Knockout
985.114	1318.747
1265.053	1075.759
1316.225	1352.008
869.398	1205.734

Fig. 5f

Controls	Knockout
138.198	134.778
145.62	101.764
174.877	174.547
119.1	146.923

Fig. 5g

Controls
65.49155
100.7165
76.56419

Knockout	Fig. 5h	Controls	Knockout
34.25635		65	47
46.12883		48	34
44.76151		69	65
73.99684		47	42

Fig. 5i	Controls	Knockout
	9.473734	0
	25.31282	4.843764
	20.10145	0
	26.31406	11.38071

Fig. 6b

Controls	Knockout
55.08	99.76
57.6	95.17
45.9	71.49
77.7	87.25
	62.26

Fig. 6d

Controls	Knockout
79.55	138.41
69.54	246.23
86.6	198.16
98.92	155.62
	236.46

Fig. 6f

Controls	Knockout
29.25095	166.6774
11.57053	482.8927
84.64281	222.2442
13.53686	264.4642
13.563	

Fig. 7a

Controls	Knockout
37.44601	39.0529
34.0359	66.10588
36.33032	47.48432
28.13043	52.83299

Fig. 7b

Controls	Knockout
26.97685	23.69337
24.31812	20.55916
28.30042	21.10167
24.96135	17.89847

Fig. 7c

	Controls	Knockout
In contact with Purkinje neurons	19	64
Not in contact	322	485

Fig. 7d

Controls
150.9063
133.296
118.4052
147.8471

Knockout	Fig. 7e	Controls	Knockout
266.3793		89.275	276.0313
216.9492		142.6	216.3521
224.4191		159.9788	285.2025
309.9477			

Fig. 8b

PV neurons: Non-PV cells

0.349069	-0.8803
1.331479	-0.52068
1.226866	-0.21094
-0.19338	-1.3386
-0.1172	-0.26325
0.559823	-1.62029
0.37936	-2.33557
-0.50286	0.506645
-1.15077	
-1.04835	
-1.35956	
0.977508	
1.098796	
-0.17185	
-0.24994	
0.084865	

Fig. 8c

PV neurons: Non-PV cells

0.176266	-1.49393
1.331287	-1.11306
2.344807	-0.54488
-0.78133	-1.04861
-0.94566	0.460732
0.239467	-1.70715
0.662784	-1.18361
-0.89898	-1.22725
-0.61936	
-1.04406	
-0.34657	
0.512999	
0.078713	
-0.19119	
0.217732	
0.404067	

Fig. 8d PV neurons Non-PV cells

0.147235	-1.20266
1.031837	-1.33579
1.515062	-0.5659
0.084912	-0.61973
-0.85901	0.514977
0.428816	-1.49015
1.102418	-2.01327
-0.82925	-0.6971
-0.3736	
-0.39381	
-1.00723	
-0.14178	
-0.65212	
0.283432	
0.029104	
-0.29788	

Fig. 9a

	Overexpression	Low	Deficient	Very Deficient
Controls	1	1	0	0
Patient 1 m.3243A>G	0	12	8	2
Patient 2 m.3243A>G	0	68	5	22
Patient 3 m.3243A>G	0	0	17	83
Patient 4 m.3243A>G	0	21	5	1
Patient 5 m.3243A>G	0	36	13	28
Patient 6 m.8344A>G	0	9	25	44
Patient 7 m.8344A>G	0	10	8	17
Patient 8 m.8344A>G	0	8	12	47
Patient 9 POLG	0	38	7	36
Patient 10 POLG	0	10	6	2
Patient 11 POLG	0	17	39	34

Fig. 9b

	Overexpression	Low	Deficient
Controls	2	1	0
Patient 1 m.3243A>G	0	0	0
Patient 2 m.3243A>G	0	32	5
Patient 3 m.3243A>G	0	17	83
Patient 4 m.3243A>G	0	5	3
Patient 5 m.3243A>G	0	5	0
Patient 6 m.8344A>G	0	16	15
Patient 7 m.8344A>G	0	10	8
Patient 8 m.8344A>G	0	4	25
Patient 9 POLG	0	19	2
Patient 10 POLG	0	2	0
Patient 11 POLG	0	27	14

Very Deficient

Fig. 9c

Controls

Mitochondrial disease

0	0.349069	-0.29164
0	1.331479	0.559553
0	1.226866	-0.49393
0	-0.19338	1.221222
0	-0.1172	1.383617
0	0.559823	-0.80329
20	0.37936	2.636893
2	-0.50286	1.03132
16	-1.15077	0.431601
22	-1.04835	2.193099
0	-1.35956	0.646441
5	0.977508	
	1.098796	
	-0.17185	
	-0.24994	
	0.084865	

Fig. 9e

Controls	Mitochondrial disease
42.36	22.37
40.34	25.55
43.03	11.93
35.53	28.87
28.76	36.16
33.4	18.46
37.67	32.44
33.88	
32.06	

Supp Fig. 1a	Controls	Knockout	Supp Fig. 1b	Controls	Knockout
	1178.08	629.91		1799.727	796.0373
	509.72	988.2		1034.677	496.8487
	1110.43	762.98		1097.127	473.7321
	385.64	1314.95		465.41	1294.318
	1410.07	415.28		731.4871	253.2694
	991.49	556.07		356.6053	1377.119
	744.74	1211.78		454.5609	648.0774
	624.93	448.46		410.234	482.2672
	765.62	431.67		366.1003	198.1559
	936.21	837.61		996.9908	251.6909
	547.2	367.46		249.9535	470.4613
	933.9			610.9007	
	1170.94			651.6275	
	811.76			920.3051	
	241.27			320.4296	
	2269.34			1238.753	
	491.1			438.3845	
	621.67			596.1032	
	592.56			313.7276	
	369.46			83.27403	
	1574.58			1396.692	
	187.33			127.2306	
	513.99			433.4995	
	575.75			209.6987	
	536.93			464.2023	
	663.55			460.4167	
	625.23				
	393.25				

Supp Fig. 1c

Controls	Knockout
790	651
550	501
638	517
374	877
555	607
471	1200
261	1591
279	950
460	1202
785	
270	
633	
946	
537	
207	
994	
670	
506	
365	
769	
923	
230	
381	
248	

Supp Fig. 2

Controls	Knockout
2531611	313115.5
1437857	695939.6
4840959	593927.6
4489086	373871.6

Supp Fig. 3a

Controls	Knockout
0.072961	-1.37697
0.51903	0.279965
-0.96112	-0.8122
0.258461	2.070579
	0.038434
	0.367492

Supp Fig. 3b

Controls	Knockout
-0.20886	-0.69844
0.205247	-0.3741
0.062693	0.964934
	0.827838
	1.62928

Supp Fig. 3c	Controls	Knockout
	-1.08846	-0.048
	-0.18961	0.000554
	0.713217	-0.04741
		-0.02446
		0.049225

Supp Fig. 3d	Controls	Knockout
	-0.27559	-0.6079
	0.414125	0.519403
	0.204826	0.411125
		0.645388
		1.855663

Supp Fig. 4a	Controls	Knockout	Controls	Knockout	Supp Fig. 4b	Controls	Knockout	Controls
	-0.189578	-4.31	0.032427	-3.22		-0.72395	-5.76	-0.16523
	-0.138345	-5.23	-0.191853	-4.32		0.368844	-4.63	-0.53163
	0.591799	-4.28	0.314412	-4.3		0.934484	-4.12	1.833859
		-4.08		-3.62			-5.4	
		-4.882967		-4.429943			-4.83307	
		-3.321285		-5.760242			-4.5914	

Knockout	Supp Fig. 4c	Controls	Knockout	Controls	Knockout	Supp Fig. 4d	Controls	Knockout
-1.95		0.603818	-2.644166	0.407027	0.791907		1.289752	-1.0118
-2.11		-0.38553	-4.169305	-0.0765	-1.91271		-0.69582	-0.77554
-1.73		-0.39812	-3.800755	-0.47945	-1.885415		0.483765	-2.24858
-2.53		0.772832	-3.208331	1.2526	-1.147437			-2.6622
-4.14194			-3.11224		-1.42095			-1.4683
-1.07925			-2.07428		-2.69181			

Controls	Knockout	Supp Fig. 4e	Controls	Knockout	Controls	Knockout	Supp Fig. 4f	Controls
-0.02239	-1.08217		1.461998	0.117134	0.644879	2.2538		-1.00874
-0.06669	-1.42626		-0.4567	-2.58315	-0.58525	-0.26535		0.512546
0.452395	-0.79786		-0.63348	-2.64932	-0.13809	-1.27163		-0.4353
-0.35461	-0.62032			-3.89185		-0.8773		
1.912801	-1.07709			-2.23635		0.646472		
	-2.77788							

Knockout	Controls	Knockout
0	0.20297	1.06
-1.02	-0.13985	-0.65
-0.37	0.154903	-0.01
0.57		0.46
0.143933		-2.88957
-2.33583		0.456453

Supp Fig. 5a	Controls	Knockout
	0.090726	0.237271
	0.162095	0.136786
	-0.468142	-0.040418
		-1.307514
		-0.579229
		0.190794

Supp Fig. 5b	Controls	Knockout
	-0.26429	0.411228
	0.149609	-0.28024
	0.301781	-2.05673
		1.317067
		-0.58834
		0.214141

0.162095

-0.468142

Supp Fig. 5c	Controls	Knockout
	-0.0218	0.428761
	-0.35333	0.21512
	0.484389	-0.56241
		-0.21564
		0.920243

Supp Fig. 5d	Controls	Knockout
	0.854468	0.568754
	1.247484	0.483366
	-0.61709	-0.14435
	-0.4311	0.731001
	1.112757	0.094293
		-1.53014

Supp Fig. 5e

Controls	Knockout
-0.15331	0.184683
0.576594	0.047191
-0.30009	-0.16641
-0.25574	-1.8998
	-0.72183
	0.204242

Supp Fig. 5f

Controls
-0.38912
0.259892
-0.28191

Knockout

1.227126

-0.56198

-2.42838

1.644843

-0.14908

0.104695

Supp Fig. 7b

Controls	Knockout
-0.22713	0.434912
-0.56119	0.553395
-0.39783	0.527177
-0.2276	0.466434
-0.49055	0.279291
-0.25834	0.329914
-0.80217	0.135384
-0.77838	-0.3612
-1.36112	-0.13555
-0.72167	0.036479
-0.75061	-0.01702
-0.83744	0.220876
-1.78228	0.194819
-1.16127	-0.37572
-1.62649	0.200049
-1.28127	0.211463
-1.22705	0.395972
-1.27176	0.013127
-1.13683	-0.11816
-1.47101	0.014022
-1.5195	0.025638
-1.16933	0.049907
-1.5606	-0.13586
-1.31224	0.122422
-1.34548	-0.07401
-1.38685	0.098104
-1.15341	0.16448
-1.12429	0.018029
-1.79714	-0.47962
-1.52232	-0.14151
-1.50945	-0.84792
-1.59994	-0.12905
-1.85616	-0.54265
0.825116	-0.33603
1.285578	-0.58659
1.25935	-0.23449
1.230892	0.071364
1.414714	-0.10407
1.893514	-0.37247
1.91669	-0.37663
1.718895	-0.77043
1.056971	-0.48388
0.782656	-0.41161
0.673232	-0.39951
0.296694	-0.58442
0.137555	-0.82177
-0.00122	-0.50991
0.117138	-0.58026
-0.08281	-0.58723

Supp Fig. 7c

Controls	Knockout
-0.23332	0.449397
-0.61571	0.506083
-0.10241	0.234137
-0.44334	0.061739
-0.20311	0.539447
-0.62846	-0.21278
-1.08112	0.505942
-0.90547	-0.00501
-0.91683	0.085787
-1.02886	0.414462
-1.14064	0.010257
-0.84063	0.059799
-1.36658	0.206252
-1.59899	-0.52283
-2.11287	0.716711
-0.94753	0.211141
-1.27416	0.179254
-1.52016	-0.50684
-1.15439	-0.1149
-1.68746	0.002069
-1.46238	0.118419
-1.30589	0.301987
-1.80788	-0.144
-1.35054	0.444534
-1.27518	-0.04795
-0.9811	0.633632
-1.43687	0.449157
-1.20803	0.370062
-1.33063	-0.06856
-1.39477	0.159644
-1.6265	-0.14229
-1.58973	0.23588
-1.66787	-0.4693
0.88324	0.490336
1.318568	-1.0245
0.810416	-0.40309
1.169405	0.335507
0.973246	0.227261
1.413931	-0.67903
1.452539	-0.25408
1.887462	0.046331
0.844578	-0.11725
0.233894	-0.34962
0.523294	-0.40993
0.027229	0.107276
0.059365	0.14754
0.300109	-0.0313
0.006064	-0.12659
-0.08644	-0.86469

0.035676	-0.35884	0.339409	0.256229
0.931278	-0.72748	0.724429	-0.6318
1.644933	-0.48438	1.232444	-0.0239
1.262579	-0.31351	1.069869	-0.11858
0.511035	-0.35671	0.518348	0.264374
-0.36131	-0.31951	-0.3183	0.1806
0.066363	0.036007	0.325851	-0.35894
-0.70585	-0.55117	-0.92859	-0.50547
0.062659	0.27743	0.127639	1.190528
0.169885	0.444296	-0.07517	0.724481
-0.59216	0.041953	-0.33231	0.435158
-0.36332	0.242074	-0.56802	-0.86066
-0.64352	-0.0762	-0.59293	-0.133
-0.26878	-0.1962	-0.60221	-0.3062
-0.3158	0.190021	-0.62878	0.473455
-1.17495	0.502481	-1.14096	0.653412
-0.46638	-0.0026	-0.23092	0.309465
-0.6271	0.077684	-0.18715	0.367926
-0.90307	0.248685	-0.9609	0.037727
-0.79517	0.680619	-0.86785	1.008106
-0.80387	0.467927	-0.16933	0.793311
-0.60246	0.450133	0.059174	0.619857
0.135667	0.25255	0.012473	0.190783
0.182462	-0.07856	-0.15506	-0.64603
-0.1927	-0.3913	-0.00784	-0.15064
-0.06102	-0.0677	0.093389	0.145029
-0.04882	-0.11229	-0.00331	-0.36659
-0.08023	-0.06588	-0.16284	-0.42618
0.096896	-0.81216	0.759189	-1.17356
0.441293	-1.22681	0.192801	-1.78352
-0.44334	-0.89642	-0.29808	-0.23012
-0.52605	-0.71863	-0.25098	-0.35946
-0.70558	-0.25427	0.34142	0.121354
-0.64958	-0.27109	-0.36206	-0.04768
-0.82203	-1.38817	-0.60954	-0.71271
0.565839	0.853954	0.810285	0.972823
0.167957	1.430711	-0.66427	1.00222
0.246871	1.77664	0.099828	1.690395
-0.10217	1.520443	0.580534	1.613138
0.134721	1.336469	-0.02169	2.031426
0.082763	1.069409	-0.37054	1.527834
0.421615	1.016176	-0.08899	1.832719
0.83533	1.289028	0.28862	1.730529
0.798741	1.781051	1.017514	1.941255
0.286667	1.645831	0.707663	1.47511
0.26562	1.821924	0.14193	1.992639
0.674839	-0.35964	1.337062	-0.22994
1.440999	0.019739	1.236333	0.094753
1.46304	0.309051	1.595429	-0.07101
1.235844	0.218847	1.077317	0.482996

1.023531	0.045129	0.932327	0.118978
1.513145	0.442927	1.631926	0.261254
1.687766	0.076897	1.66505	-0.16655
1.20648	-0.13247	1.043476	0.23241
1.286381	0.347375	1.584878	0.534366
0.894686	0.284019	0.920902	-0.09455
1.768413	0.541687	1.702285	0.807078
1.40471	0.28408	1.176297	0.654511
1.015818	-0.04178	1.379559	-0.04701
1.487771	-0.25833	1.075174	-0.29185
1.005813	0.538818	1.295063	0.393537
0.140532	0.990879	1.663987	0.764934
0.932157	0.800471	0.516524	0.857823
1.190737	0.634896	1.278988	0.729342
0.763262	0.674852	1.647769	0.50079
1.123884		1.30006	
0.943364		0.823175	
0.925661		0.75548	
0.483337		-0.06074	

Supp Fig. 7d	Controls	Knockout
	-1.627696	0.294132
	-1.269792	0.615143
	-1.380824	0.640664
	-1.606247	0.468145
	-1.649491	0.578098
	-1.40197	0.590728
	-1.374039	0.43465
	-1.083251	0.431415
	-1.544909	0.458993
	-1.332295	0.276599
	-1.578075	0.484407
	-1.277631	0.426826
	-1.165196	0.296688
	-1.256108	0.676094
	-1.368025	0.858789
	-1.249015	0.548218
	-1.713757	0.764214
	-1.742143	0.4586
	-1.648683	0.502775
	-1.598785	1.163263
	-1.670436	0.844153
	-1.917917	0.738291
	-0.846035	0.48203
	-0.498348	0.302582
	-0.854162	0.427709
	-0.646303	0.559369
	-0.318202	0.930132
	-0.887861	1.256723
	-1.080376	1.112295
	-0.88972	0.974171
	-1.026071	1.096565
	-0.902713	0.88705
	-0.957263	0.92813
	-0.598813	1.095428
	-0.580273	1.00479
	-0.81202	0.751352
	-0.376377	0.628897
	-0.648823	0.414832
	-0.76626	1.322988
	-0.786355	0.877244
	-1.147264	1.502452
	-0.804626	0.953402
	-0.958743	1.382518
	-0.138843	1.307205
	-0.707914	1.357048
	-0.566196	0.668244
	0.004397	0.878627
	-0.394586	1.258279
	-0.804523	1.007909

Supp Fig. 7e	Controls	Knockout
	-1.68829	-0.23156
	-0.76581	0.134855
	-0.78586	0.343121
	-1.38183	0.701404
	-1.5153	0.612008
	-1.33632	0.182495
	-1.14266	-0.05544
	-0.52155	0.015063
	-1.19102	0.870958
	-0.83138	-0.21018
	-1.40721	0.644888
	-1.28741	-0.0717
	-0.60064	0.500947
	-1.02239	1.121986
	-0.43803	1.269028
	-0.9729	1.094983
	-1.7426	0.558072
	-1.84673	1.192526
	-1.71265	1.029445
	-1.68494	1.025159
	-1.95778	0.330619
	-1.81301	0.931817
	-1.0239	0.594774
	-1.01628	0.883524
	-1.42951	0.555689
	-2.24442	0.703639
	-0.99468	0.487042
	-1.55655	1.728396
	-2.00271	1.758682
	-1.77856	0.826766
	-1.23054	1.091149
	-1.53722	0.830461
	-2.01942	0.546461
	-0.68676	0.774186
	-0.9016	0.78543
	-0.7526	0.425921
	0.121047	0.295321
	-0.87045	-0.34717
	-1.135	1.585878
	-0.52697	0.328625
	-1.69339	1.694677
	-0.44203	0.394413
	-1.22006	1.393748
	-0.37635	1.080476
	-1.1371	1.954188
	-0.02992	0.573839
	0.411937	0.604608
	0.412156	1.111271
	-0.7079	0.834015

0.1127	1.113189	-0.19248	1.308143
-0.512009	1.131025	-0.95162	1.639054
-0.46835	0.991928	0.101067	1.078405
-0.60179	0.942021	-0.75801	0.836556
-0.903968	1.268616	-0.3769	1.984358
-0.447138	1.123226	0.331847	0.971444
0.266091	0.984291	0.919843	0.774534
-0.132376	1.316902	1.174324	1.388421
0.021248	1.53274	0.876709	2.35872
-0.088806	1.73192	0.323055	2.275348
0.064598	1.02263	0.534247	1.270093
0.00365	1.724354	0.093304	2.492202
0.195778	1.686942	1.04904	2.014569
0.313088	1.338555	1.209924	1.555217
0.246205	1.13072	0.703237	1.456964
0.376622	1.051029	1.129249	0.84706
-0.036327	1.180443	0.204888	1.838667
-0.079792	1.338098	0.712682	2.159232
-0.433418	1.06512	-0.29429	1.023944
-0.207658	1.271864	-0.19604	1.261784
-0.225606	1.683969	-0.26433	2.506397
0.101842	1.488456	1.306808	1.702508
-0.082061	1.904783	0.284243	2.844197
0.066838	1.46966	0.452839	2.237652
-0.087496	1.36996	0.317535	1.610586
-0.292965	1.529648	0.231871	2.089607
-0.589594	1.349283	-0.70516	2.805049
0.210314	1.65895	1.088181	2.241405
0.025909	1.602417	0.145161	1.720711
0.189027	1.627351	0.25522	2.049754
0.030019	1.265834	0.025335	0.611811
0.28924	1.503759	0.424876	1.675802
-0.130216	1.344984	0.544082	2.343046
-0.216854	1.385303	0.013449	1.323864
0.28132	1.809995	0.612331	2.022566
-0.348711	1.618967	-0.28072	1.829446
0.105205	1.176342	0.583545	1.396033
-0.063423	1.248023	1.03845	1.236518
0.268855	1.279202	1.241228	2.019173
0.312747	1.836112	1.380819	2.274354
-0.595442	1.680705	-0.8732	2.070414
-0.315574	1.160396	-0.16284	1.179173
-0.223816	1.604766	0.032354	1.535868
-0.156628	1.43422	0.193759	2.131492
0.005031	1.620143	0.509991	2.099348
0.082357	1.479636	0.467479	1.804148
0.183484	1.602455	0.952496	1.414659
-0.187698	1.396903	0.21896	1.414063
0.364619	1.481522	1.393272	1.856253
0.407444	1.506548	0.990686	1.376204

0.207079	1.460641	0.568029	2.394681
0.426347	1.476435	1.490294	2.031855
0.1433	1.277318	0.619996	1.446164
0.261911	0.878693	1.309379	1.035683
0.170898	1.194551	0.367389	1.231026
0.072384	1.718402	0.704814	1.90341
0.241285	1.260771	0.8948	1.113045
0.699055	2.802388	0.225296	2.621384
1.397985	1.761176	1.261187	2.310689
1.667968	1.847971	1.528937	2.191201
1.64878	1.464627	1.266366	1.589704
1.461482	1.769601	1.655311	2.364717
1.30966	1.474333	1.041415	1.536202
1.528661	1.760692	1.306016	2.302603
1.473222	1.548606	1.216186	1.430521
1.534945	1.377107	1.29968	0.72915
1.617333	1.51794	1.382228	1.99638
1.535111	1.480907	0.804729	1.001901
1.666485	1.555651	1.514715	1.392431
1.811622	1.162431	1.718727	0.732754
1.309058	1.61478	1.303982	1.805837
1.78301	1.518557	1.170836	1.143883
1.46579	1.651005	0.340195	2.180792
1.52972	1.576852	1.286888	1.87454
1.02453	1.813314	0.605068	1.949543
1.24795	1.876715	0.2251	2.417072
1.332223	2.139023	0.748608	2.353996
1.416969	2.398917	0.593503	2.759802
1.411773	1.296011	1.2614	0.94996
1.192344	1.534896	-0.02868	1.569913
1.193717	1.261119	0.18479	1.461905
1.058553	1.451772	1.056616	1.015407
1.773367		1.043689	
1.837035		1.002029	
1.401234		0.176416	
0.919425		0.297235	
1.056715		-0.22211	
0.960902		0.01776	
1.3035		0.288993	
1.264107		0.02196	
0.931261		0.14802	
1.065623		-0.00206	
1.269871		0.039911	
0.732368		-0.21717	
1.606341		0.367033	
1.391136		1.116815	

Supp Fig. 8a	Controls	Knockout
	0.517326	0.175487
	-0.11757	1.732203
		-2.09345

Supp Fig. 8b	Controls	Knockout
	-0.94574	0.640683
	0.236434	0.113919
		-1.15862
		2.379752

Supp. Fig. 9	Controls	Patients
	-0.01451	-0.69231
	-0.06024	-1.23169
	-0.0827	-0.49706
	0.288763	-0.95708
	-1.44205	-0.24797
	-0.35742	-1.21308
	0.119372	0.925381
	-1.14707	0.059885
	-0.16315	-1.09204
	-0.23596	-1.10517
	0.61494	-0.7368
	0.768312	
	1.300418	
	-1.55783	
	0.375888	
	0.778998	