

***Vrk1* partial Knockdown in Mice Results in Reduced Brain Weight and Mild Motor Dysfunction, and Indicates Neuronal VRK1 Target Pathways**

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Supplementary data

Table S1: Genes showing significantly altered expression in the cortex of *Vrk1*^{GT3/GT3} mice

Gene	Description	Fold change	p value	Padj (Benjamini-Hochberg)
<i>Vrk1</i>	Vaccinia related kinase 1	-2.89	1.24E-27	1.18E-23
<i>Xaf1</i>	XIAP associated factor 1	2.69	1.58E-08	5.02E-05
<i>Tekt1</i>	Tektin1	3.52	7.59E-08	1.81E-04
<i>Serpina3n</i>	Serine (or cysteine) peptidase inhibitor, clade A, member 3N	8.79	1.12E-34	2.14E-30
<i>Serpina3m</i>	Serine (or cysteine) peptidase inhibitor, clade A, member 3M	236.71	3.86E-13	1.84E-09

Table S2: Genes showing significantly altered expression in the spinal cord of *Vrk1*^{GT3/GT3} mice

Gene	Description	Fold change	p value	Padj (Benjamini-Hochberg)
<i>Vrk1</i>	Vaccinia related kinase 1	-4.62	6.253E-36	1.27E-31
<i>Cox6a2</i>	Cytochrome c oxidase subunit Via polypeptide 2	3.43	2.260E-05	4.19E-02
<i>Serpina3n</i>	Serine (or cysteine) peptidase inhibitor, clade A, member 3N	3.59	8.521E-12	4.34E-08
<i>Xaf1</i>	XIAP associated factor 1	5.2	4.872E-19	3.3E-15
<i>Foxg1</i>	Forkhead box G1	8.05	1.696E-05	3.46E-02
<i>Tbr1</i>	T-box brain gene 1	23.97	6.800E-06	1.54E-02
<i>Serpina3m</i>	Serine (or cysteine) peptidase inhibitor, clade A, member 3M	187.4	7.012E-10	2.86E-06