DJ-1	deficiency	impairs	glutamate	uptake in	to astrocytes	s via 1	the re	gulatio	n
of flo	otillin-1 and	l caveolir	n-1 express	ion					

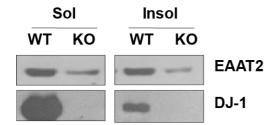
Jin-Mo Kim, Seon-Heui Cha, YuRee Choi, Ilo Jou, Eun-Hye Joe and Sang Myun Park *

Supplementary figure 1, 2

Supplementary figure 1, 2 legend

Methods for supplementary figure 2

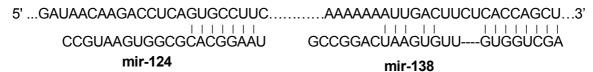
Supplementary figure 1.



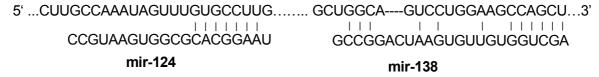
Supplementary figure 2.

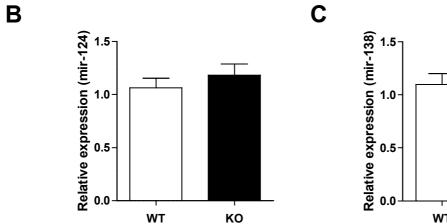


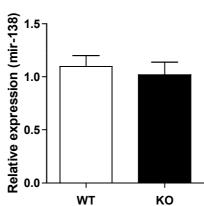
hFlotillin-1 3'-UTR



hCaveolin-1 3'-UTR







Supplementary figure 1 legend

Primary astrocytes from WT and DJ-1 KO mice were lysed using ice-cold 1% Triton X-100 buffer, and fractionated as described in 'Methods'. The soluble and insoluble fractions were analyzed for EAAT2 and DJ-1 by Western blotting.

Supplementary figure 2 legend

(A) Human flot-1 and cav-1 were predicted to be a target of miR-124 and -138 by PITA. (B) The level of miR-124 and -138 in WT and DJ-1 KO astrocytes were analyzed by quantitative RT-PCR.

Methods for supplementary figure 2

Total RNA was isolated from the cells using an miRNeasy Mini Kit (Qiagen), according to the manufacturer's instruction. Subsequently, cDNA synthesis and quantitative real-time PCR for miRNA was performed using miScript PCR Starter Kit (Qiagen) containing a miScript Reverse Transcriptase Mix, QuantiTect SYBR Green PCR Master Mix, and Universal primers, on on Rotor-Gene cyclers (Corbett Research), according to the manufacturer's instruction. The specific primers for miR-124, -138, and RNU as a loading control, were purchased from Qiagen. The values of miRNA were calculated using the delta Ct method and expressed as a change relative to the expression of RNU as an internal control.