Supplemental Data

Figure Legends

Figure S1. GRIN2 contains a transcriptional activation domain. Full length GRIN2 can induce expression of reporter genes without interacting proteins. 1) pDBLeu empty vector; 2) pDBLeu vector containing GRIN2 1-360 aa; 3) pDBLeu vector containing GRIN2 full length. The transcriptional activation was confirmed by both growth (on plates lacking leucine, tryptophan, and histidine) and B-Gal assay (which measures β−galactosidase activity).

Figure S2 Gαo expression does not affect Sprouty2 subcellular distribution in Neuro-2A cells. Neuro-2a cells were transiently transfected with expression plasmids for (A) mSprouty2-GFP; (B) mSprouty2-GFP and Gαo-Q/L; After 24 hours, live cells were imaged in a laser scanning microscope 510-META. Scale bar, 10 μm. Representative images from one of four experiments.

Figure S3 siRNA knockdown of endogenous GRIN1 in Neuro-2A cells. Neuro-2a cells were transfected with the either Non-Targeting (CT) or mGRIN1 (GRIN1) siRNA. After 48 hours, RNA was harvested and expression of beta- tubulin and GRIN1 was quantified by real time PCR. GRIN expression was normalized against tubulin RNA levels for each sample.

Figure S1

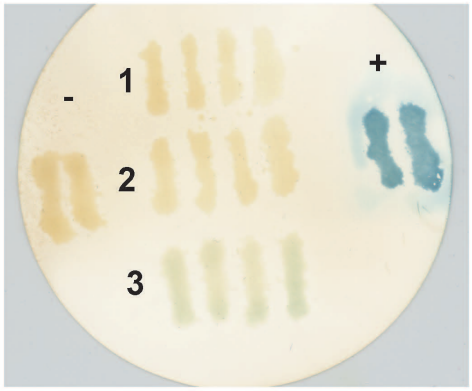


Figure S2

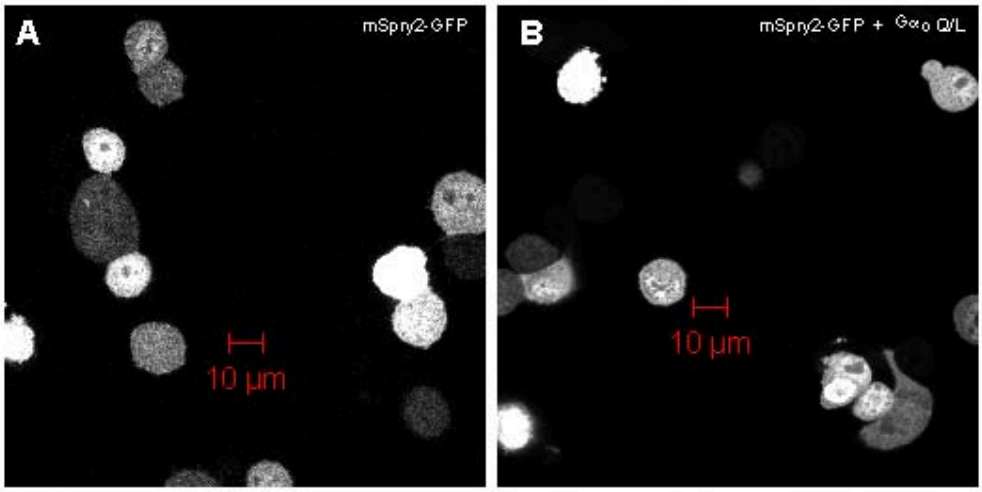


Figure S3

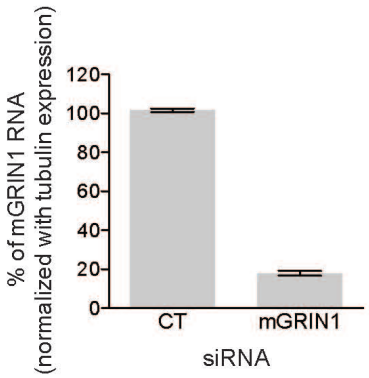

% of mGRIN1 RNA
(normalized with tubulin expression)
120
100
80
60
40
20
0
CT
mGRIN1
siRNA

Figure S1

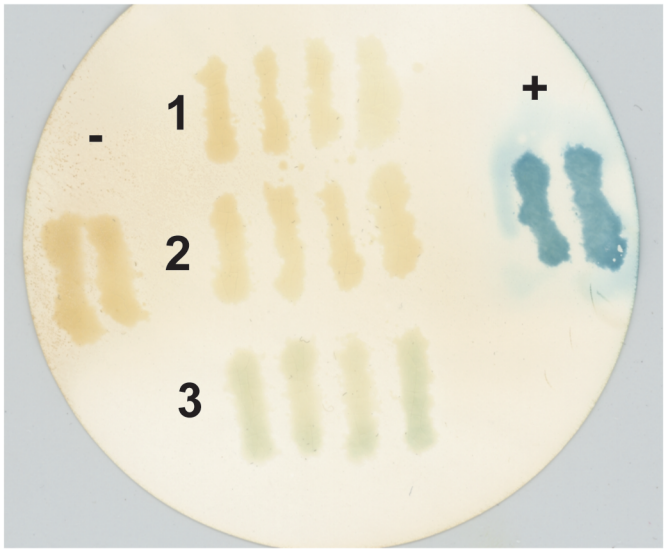


Figure S2

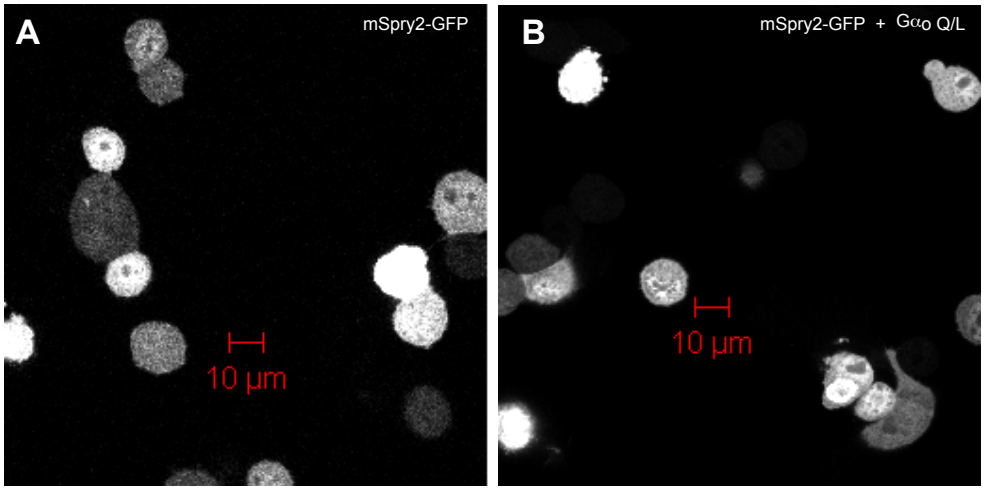
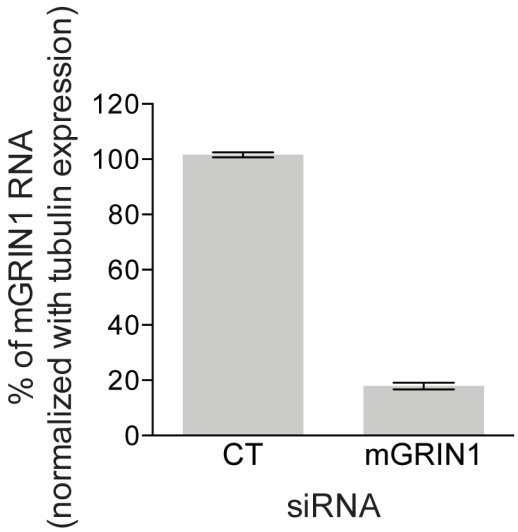


Figure S3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(normalized with tubulin expression)
120
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