

**Table S3. Primary antibodies, primers and gRNA sequences used in this study**

<b>Antibodies/Genes</b>	<b>Company/ ID</b>	<b>Dilution</b>
CNPase antibody (Mouse, Rabbit)	Invitrogen: PA5-29345 Sigma: SAB4200693	IHC, 1/250 IHC, 1/250
Cx32 antibody (Mouse)	Millipore: MAB3069	WB, 1/1000 IHC, 1/250
Cx32 antibody (Rabbit)	Thermo Scientific: 71-0600	IHC, 1/250
Cx32 antibody: (Mouse)	Abcam: 66613	WB, 1/1000 IHC, 1/250
$\alpha$ -syn antibody: (Rabbit)	Invitrogen: 701085	WB, 1/20,000 IHC, 1/5,000
pS129 $\alpha$ -syn antibody (Mouse)	Wako: 015-25191	IHC, 1/1,000
GAPDH antibody: (Mouse)	Novus Biologicals: 2D4A7	WB, 1/10,000
$\beta$ 3-tubulin antibody: (Mouse, Rabbit)	Sigma Aldrich: Tuj1 Biolegend: (Poly18020)	IHC, 1/1,000
$\beta$ -actin antibody: (Mouse)	Sigma Aldrich: AC-15	WB, 1/10,000
mCherry antibody: (Rabbit)	Invitrogen: PA5-34974	WB, 1/1000 IHC, 1/250
A $\beta$ antibody: (Mouse)	Biolegend: 6E10	WB, 1/1000 IHC, 1/250
MBP: (Mouse)	Santa Cruz Biotechnology: 271524	IHC, 1/250
GJA1	Hs00748445	
GJA1	Mm00439105	
GAPDH	Hs03929097	
GAPDH	Mm99999915	
GJB1	Hs00939759	
GJB1	Ms00439759	
SNCA	Hs01103383	
CRISPR gRNA sequence	GTGGACCTATGTCATCAGCG	Pam: TGG