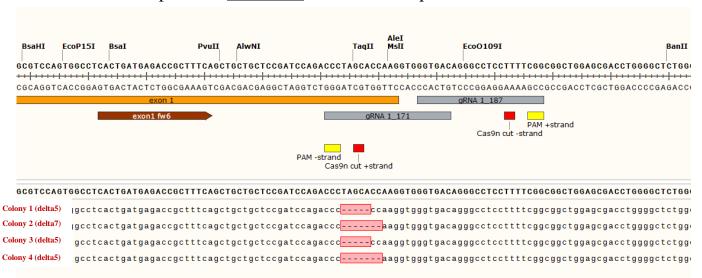
## Supplementary data for the manuscript named:

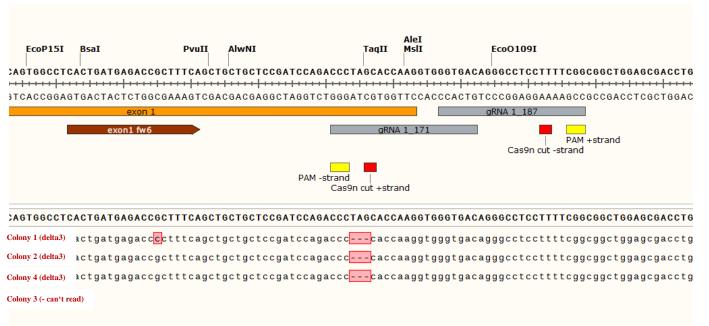
Loss of Glyoxalase 1 Induces Compensatory Mechanism to Achieve Dicarbonyl Detoxification in Mammalian Schwann Cells

**Sequencing results** 

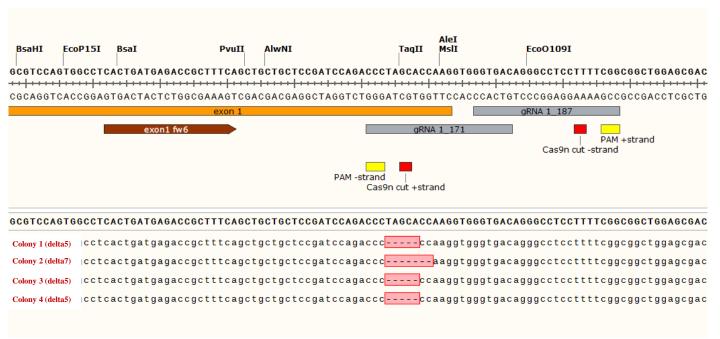
## Clone #1 corresponds to #1 GLO-/- in the manuscript



## Clone #3 corresponds to #2 GLO-/- in the manuscript



## Clone #4 corresponds to #3 GLO-/- in the manuscript



CRISPR genotyping via subcloning & sequencing of PCR product DNA was extracted from one well of 6-well plate for each clone with the Qiagen DNeasy blood & tissue kit (catalog #69506) according to manufacturer's recommendations for cells. A PCR product with primers covering 421 bp around the Cas9 site of sgRNA\_171 (forward: 5'-GCTGGCCTGTTTGCTACTAG-3'; 5'reverse: AGACACGGAATCTGACCCTG-3') was generated with the following PCR conditions: The PCR product was run on a 2% agarose gel, the band was cut and extracted with the Qiagen QIAquick gel extraction kit (catalog #28706) according to manufacturer's recommendations. 20 ng DNA of the eluate from the gel extraction was subcloned into the pJET1.2/blunt vector with the Thermo Fisher Scientific CloneJET PCR Cloning Kit (catalog #K1231) according to the blunting protocol of the manufacturer. 2.5µL of the ligation reaction per clone was transformed into chemocompetent E. coli (DH5a) and plated on ampicillin-containing agar plates. At least four colonies per clone were picked, grown overnight in ampicillin-containing LB medium and DNA was extracted with the Qiagen QIAprep spin miniprep kit (catalog #27106) according to manufacturer's recommendations. 15µL of the recovered DNA at a concentration of 75 ng/µL and 2µL of a nested sequencing primer (pJET1.2 5'forward sequencing primer: CGACTCACTATAGGGAGAGCGGC-3') at a concentration of 10 µM were mixed and sent for Sanger sequencing to Eurofins MWG Operon. The sequences obtained from Eurofins were analyzed with SnapGene software.