



Supplementary Figure 8. GBA overexpression inhibits MPTP-reduced mitochondrial protein level in GBA^{+L444P} mice. **a** Immunoblots of SDHA, PDH, VDAC, TH, GBA, and α -synuclein from AAV5-Con injected WT, AAV5-hGBA injected WT, AAV5-Con injected heterozygous,

and AAV5-hGBA injected heterozygous mice treated with saline or MPTP. VMB lysates were immunoblotted with anti-SDHA, anti-PDH, anti-VDAC, anti-TH, and anti-GBA antibodies. **b** SDHA, **c** PDH, **d** VDAC, **e** TH, **f** GBA, and **g** α -synuclein expression levels were normalized against β -actin. Error bars represent the mean \pm S.E.M. (n = three mice per group). Two-way ANOVA was used for statistical analysis followed by *post-hoc* Bonferroni test for multiple group comparison. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$ vs. saline-treated WT with AAV-Con or saline-treated GBA^{+/*L444P*} with AAV5-Con or MPTP-treated WT with AAV5-Con or MPTP-treated GBA^{+/*L444P*} with AAV5-Con group.