Supplemental Figure Legends

Figure S1. Schematic of Translating Ribosomal Affinity Purification.

Figure S2. Etnppl expression across tissues. *Etnppl* mRNA expression in wild-type adult liver (liv), kidney (kid), heart, gWAT, iWAT, sol, plant, gut, brain, and BAT. Data (as mentioned in text) are expressed as mean $\pm$ S.D. Represented data analyzed using multiple student's two-tailed t-tests. Outliers were removed after using Grubb's outlier test. $^*\alpha = 0.05$; $^{**}\alpha = 0.01$; $^{***}\alpha = 0.001$; $^{****}\alpha = 0.0001$; ns, not significant.

Figure S3. Impact of dexamethasone in primary astrocytes on glucocorticoid responsive genes. mRNA expression of glucocorticoid-responsive genes in wild-type P2 1° astrocytes after a 24- or 72-hour exposure the glucocorticoid agonist dexamethasone. [dexamethasone] = 100nM. (n = 3). Data (as mentioned in text) are expressed as mean $\pm$ S.D. Represented data analyzed using multiple student's two-tailed t-tests. Outliers were removed after using Grubb's outlier test. $^*\alpha = 0.05$; $^{**}\alpha = 0.01$; $^{***}\alpha = 0.001$; $^{****}\alpha = 0.0001$; ns, not significant.

Figure S4. Impact of Etnppl loss on PC metabolites in the hippocampal metabolome. Relative abundances of PC-associated metabolites in whole hippocampus from 18-hour fasted 9-week-old Etnppl^{KO} and WT (n = 6). Data in A are expressed as mean $\pm$ S.D. Represented data analyzed using multiple student's two-tailed t-tests. Statistical significance of represented metabolites in B determined using two-stage false discovery rate (FDR) method of Benjamini, Krieger, and Yekutieli with a FDR (Q) of 10%. Fold changes in green boxes are significantly increased, fold changes in red boxes are significantly decreased, and fold changes in yellow boxes are not significantly affected by genotype. $^*\alpha = 0.05$; $^{**}\alpha = 0.01$; $^{***}\alpha = 0.001$; $^{****}\alpha = 0.0001$; ns, not significant.

Figure S5. PE abundance and composition is altered in cortex after loss of Etnppl.

Relative abundance in PE species in cortex from 18-hour fasted, 9-week-old Etnppl[KO] and WT

mice. (n = 5) Data are expressed as mean $\pm$ S.D. Represented data analyzed using multiple

student's two-tailed t-tests. *α = 0.05; **α = 0.01; ***α = 0.001; ****α = 0.0001; ns, not

significant.

Figure S6. PC abundance and composition is altered in cortex after loss of Etnppl.

Relative abundance in PC species in cortex from 18-hour fasted, 9-week-old Etnppl[KO] and WT

mice. (n = 5) Data are expressed as mean $\pm$ S.D. Represented data analyzed using multiple

student's two-tailed t-tests. *α = 0.05; **α = 0.01; ***α = 0.001; ****α = 0.0001; ns, not

significant.