**The location of data in folders that are used in the manuscript figures are listed below.**

**Figure 2A:** Data>Data 1 In vivo> Blot images> Biotinylated carboxylase and GCN2

**Figure 2C:** Data>Data 1 In vivo> Assay of biotinylated carboxylase activity

**Figure 2D:** Data>Data 1 In vivo> HPLC analysis of intracellular amino acid content

**Figure 3:** Data>Data 1 In vivo> Immunofluorescence

**Figure 4A:** Data>Data 1 In vivo> Blot images> ER stress

**Figure 4A:** Data>Data 1 In vivo> Blot images> Autophagy

**Figure 4D:** Data>Data 1 In vivo> Blot images> Insulin Signalling AKT-mTOR downstream

**Figure 4F:** Data>Data 1 In vivo> TG, Chol, Insulin assay

**Figure 5A, D, E:** Data>Data 2 In vitro> Blots

**Figure 6A, B, C:** Data>Data 2 In vitro> HPLC-Amino acid analysis

**Figure 6D, E:** Data>Data 2 In vitro> Triglyceride and cholesterol content

**Supplementary Figure1**: Data>Data 2 In vitro> Glial culture images and confirmation