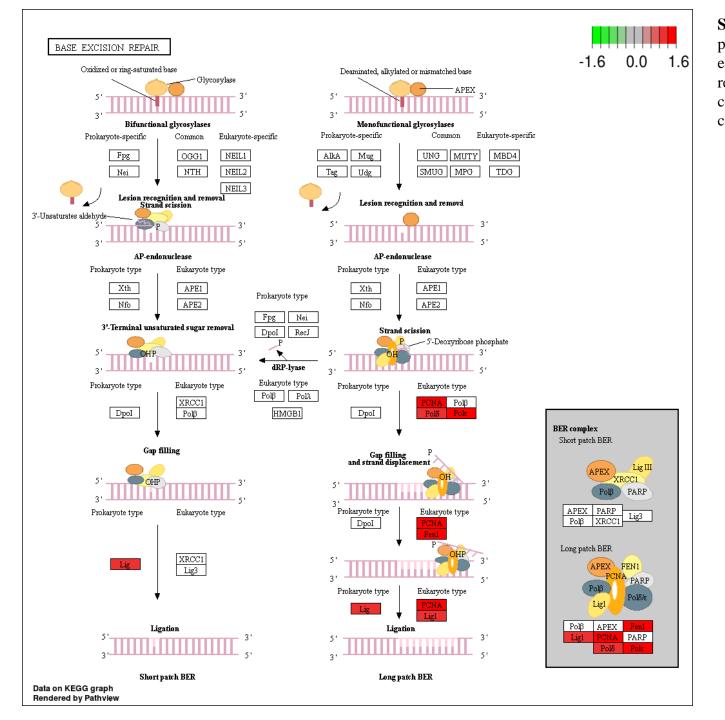
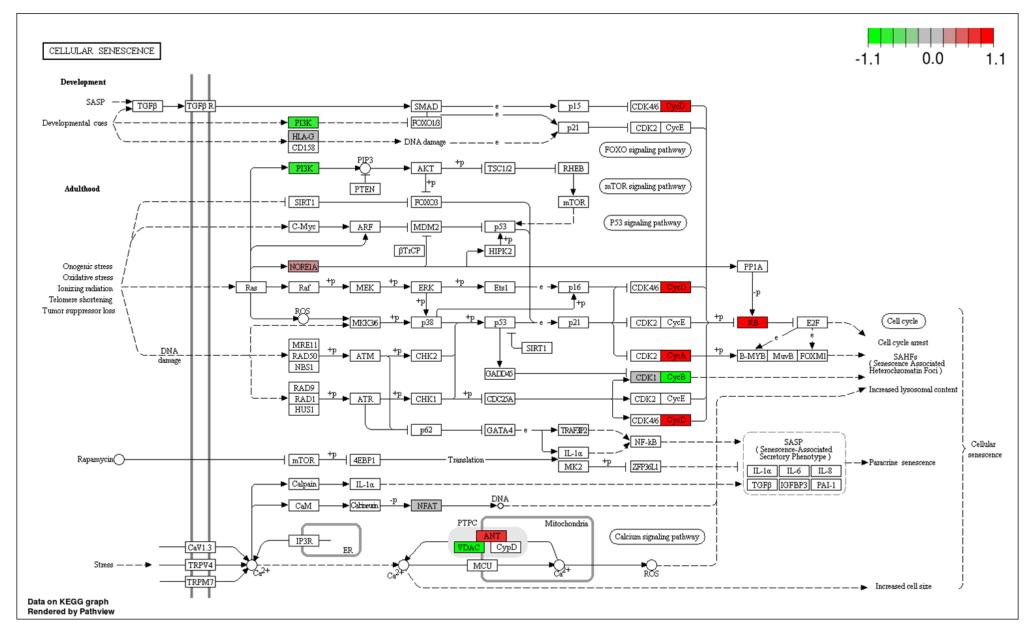


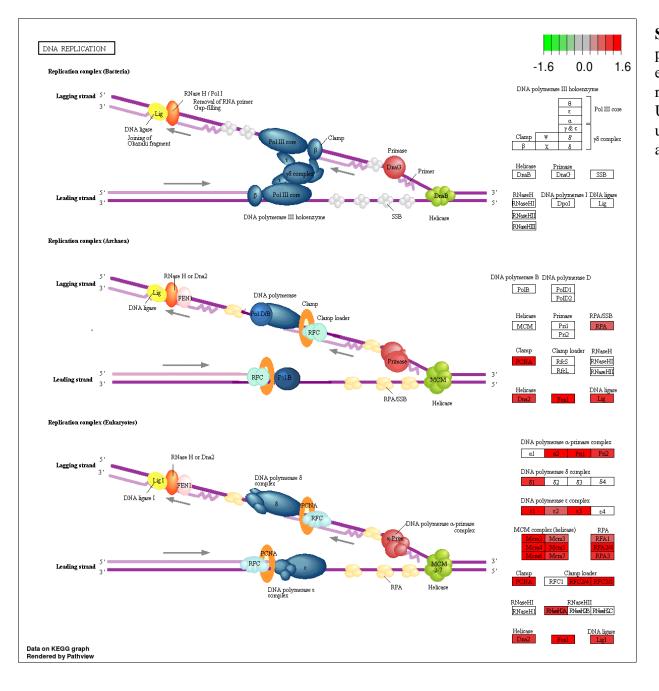
Supplementary figure 1. Hierarchical clustering of samples by read counts per gene. Heatmap and dendrogram. Heatmap legend and colours indicate betweensample Euclidean distance. Note that both axes of the heatmap represent the list of samples, but the sample labels on the x axis



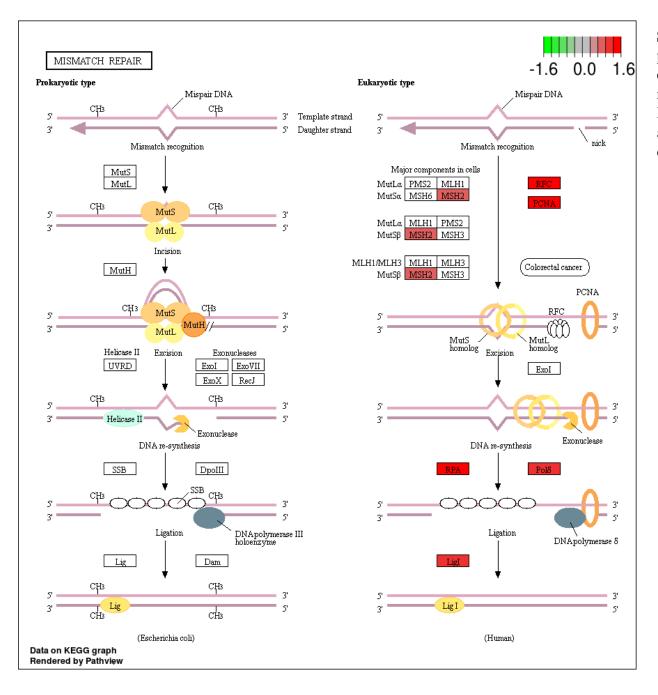
Supplementary figure 2. Metabolic pathway map showing differentially expressed genes within base excision repair for midgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated



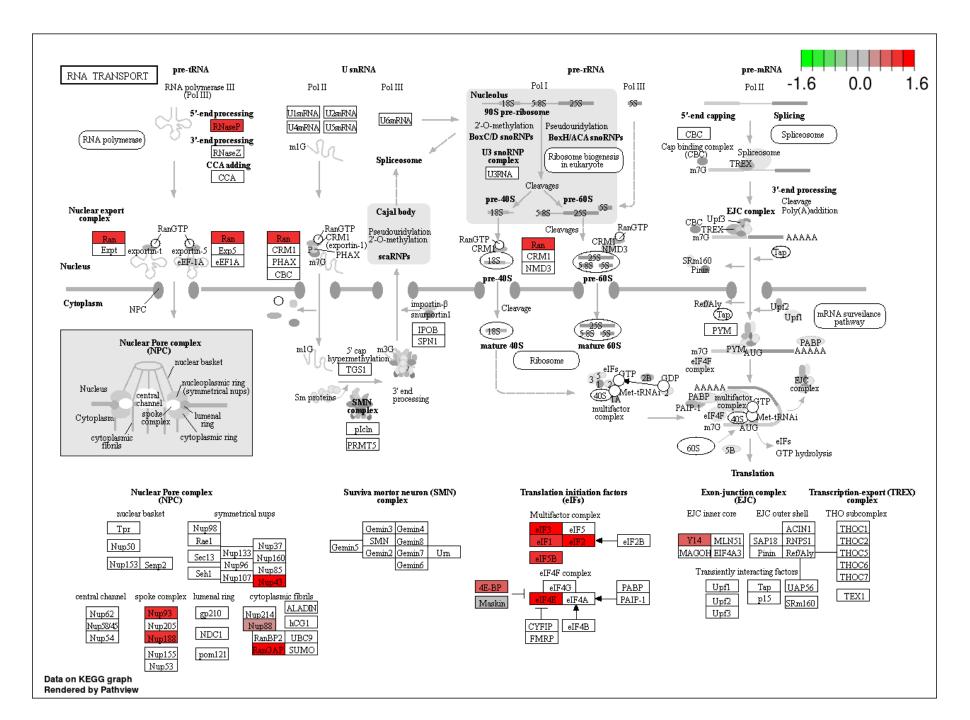
**Supplementary figure 3**. Metabolic pathway map showing differentially expressed genes within cellular senscene for hindgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated



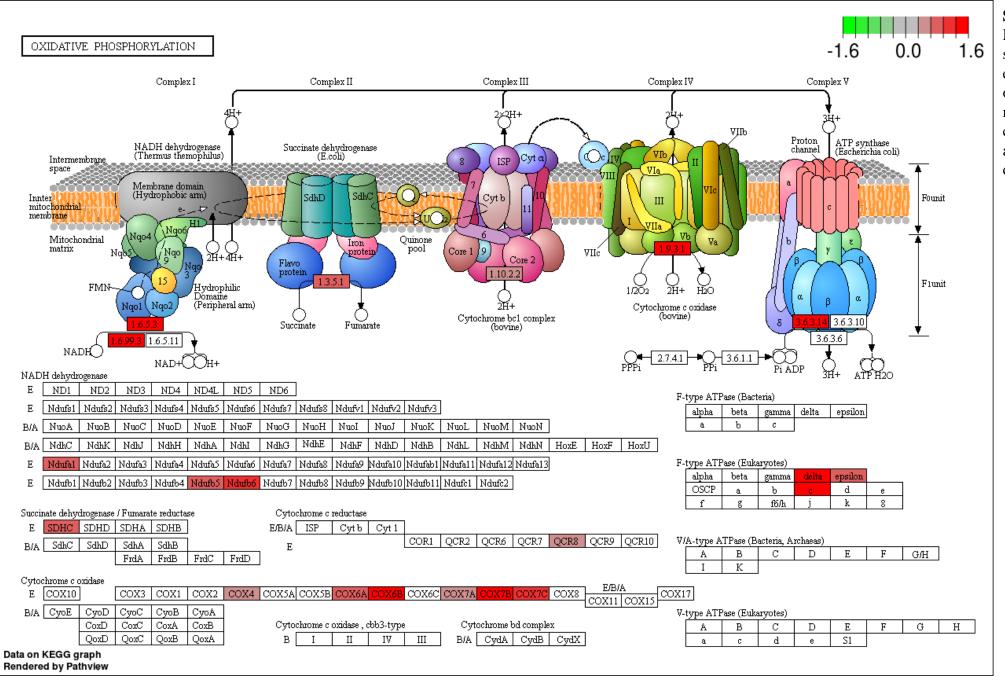
Supplementary figure 4. Metabolic pathway map showing differentially expressed genes within DNA replication for midgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated



Supplementary figure 5. Metabolic pathway map showing differentially expressed genes within mismatch repair for midgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated

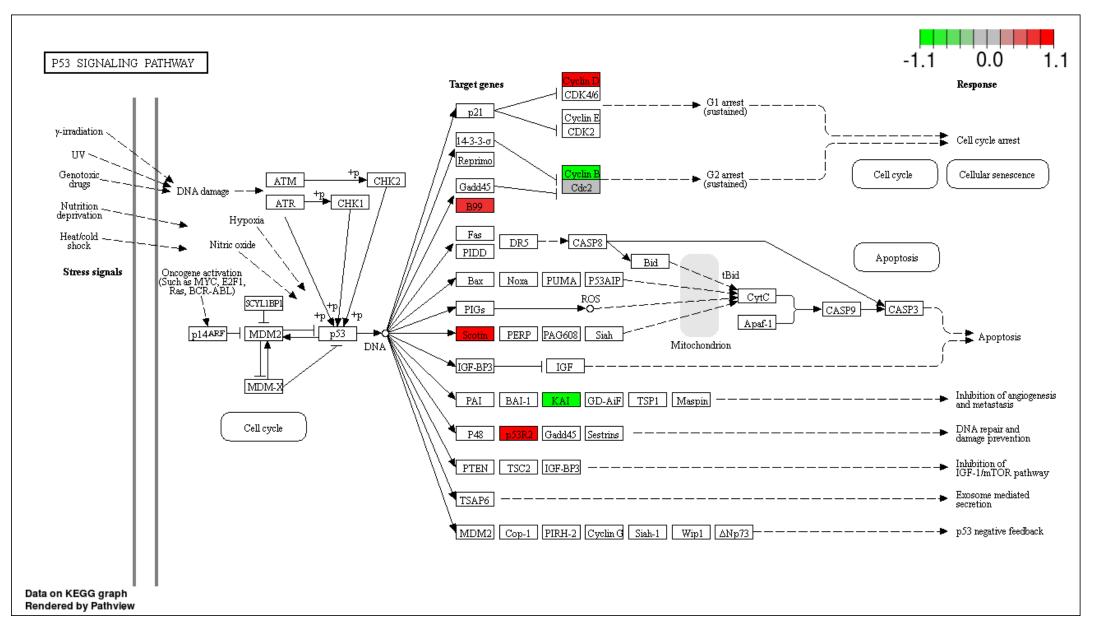


Supplementary figure 6. Metabolic pathway map showing differentially expressed genes within RNA transport for midgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated

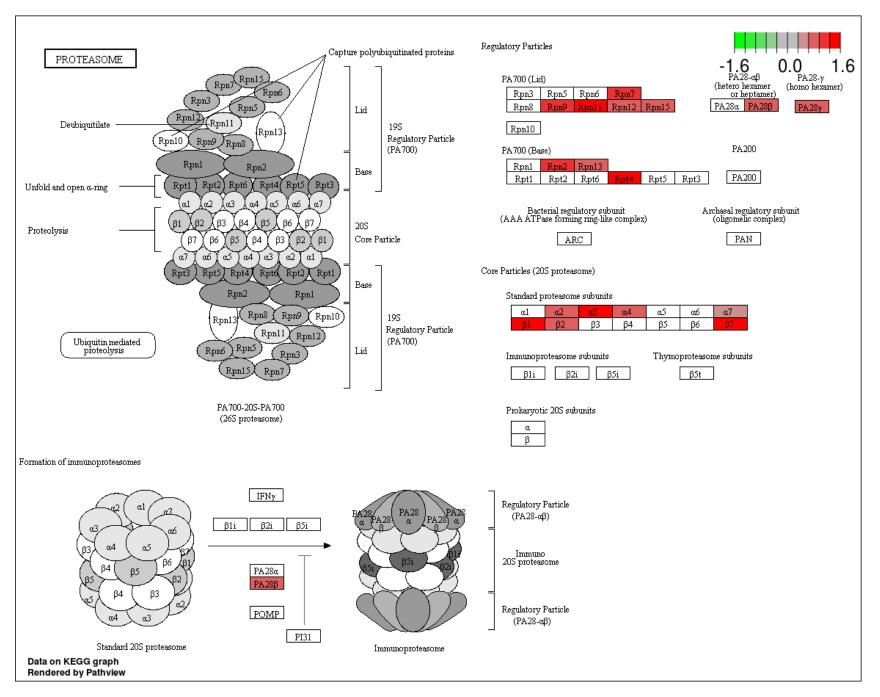


## Supplementary figure 7.

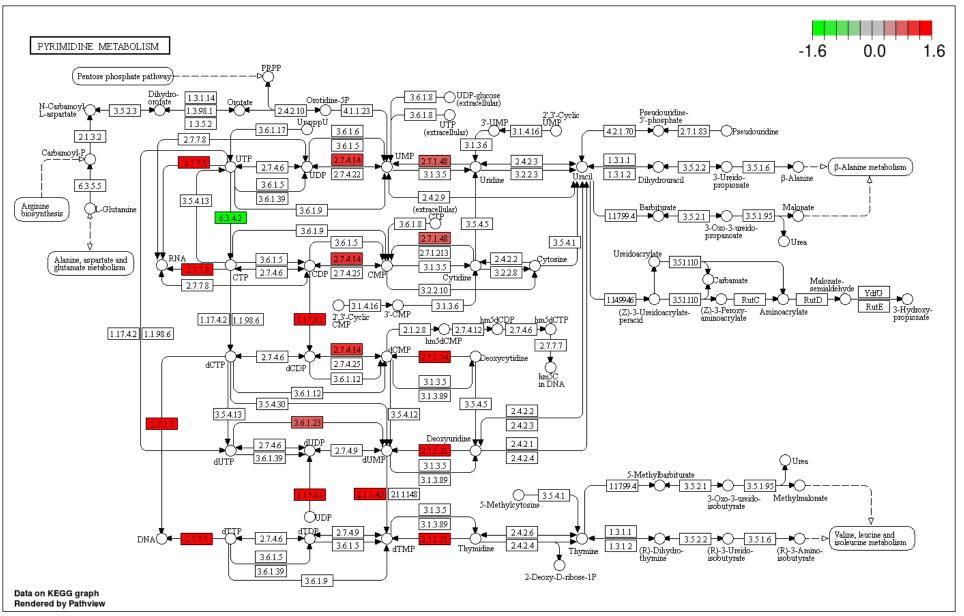
Metabolic pathway map showing differentially expressed genes within oxidative phosphorylation for midgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated



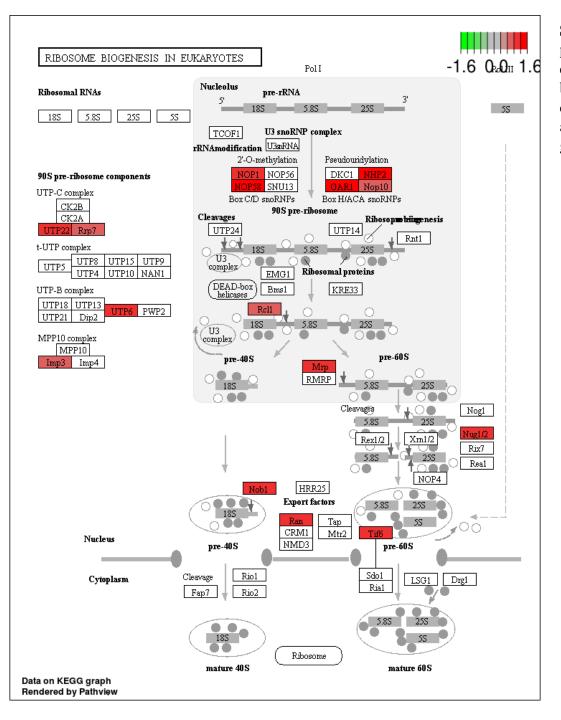
**Supplementary figure 8.** Metabolic pathway map showing differentially expressed genes within P53 signalling pathway for hindgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated



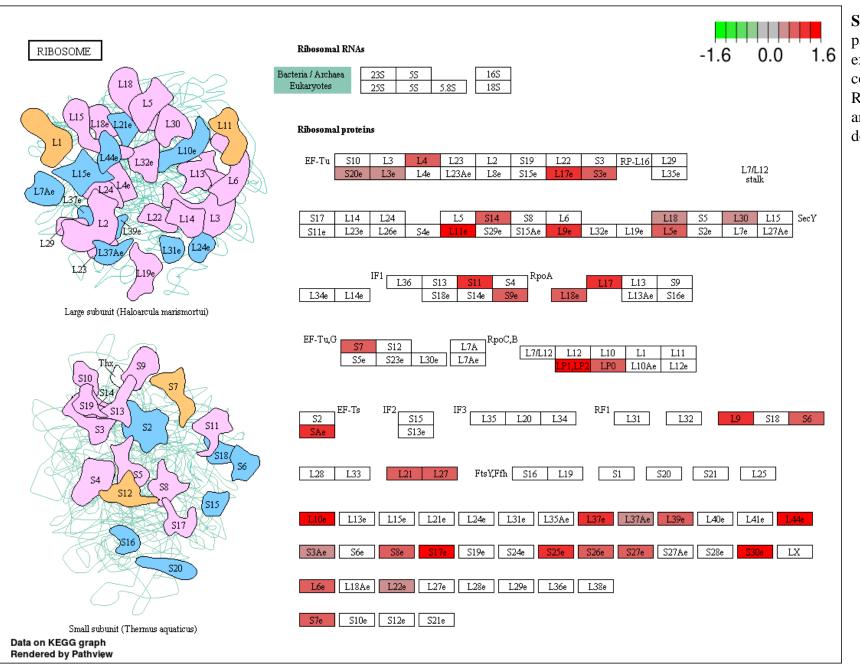
Supplementary figure 9. Metabolic pathway map showing differentially expressed genes within the proteasome complex for midgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated



Supplementary figure 10. Metabolic pathway map showing differentially expressed genes within pyrimidine metabolism for midgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated



Supplementary figure 11. Metabolic pathway map showing differentially expressed genes within ribosome biogenesis in eucaryotes for midgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated



Supplementary figure 12. Metabolic pathway map showing differentially expressed genes within ribosome complex for midgut control vs UCS. Red colored genes are upregulated and green colored genes are downregulated