## **Descriptions of Additional Supplementary Data files**

Supplementary Dataset 1 - This table contains a list of genes included in the GO: 0072593 relative to the MZB versus FoB comparison.

Supplementary Dataset 2 – This table contains the list of COMPASS reactions relative to the comparison MZB versus FoB (Gclc fl/fl).

Supplementary Dataset 3 - This table contains the list of COMPASS reactions relative to the comparison Gclc-deficient versus control FoB.

Supplementary Dataet 4 – This table contains the list of surface antibodies for flow cytometry used in the study.