## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1 Description: top EAML candidate genes of Full, Male, and Female cohort

File Name: Supplementary Data 2

Description: List of Tau and  $\beta$ 42 suppressors and enhancers in the Drosophila screen. Includes, homolog, line tested and source and p values for non linear random mixed effects model ANOVA comparissons using splines as described in materials and methods.

File Name: Supplementary Data 3 Description: Recurrent genes over downsampling analyses