



**Figure S4.** Analysis of PROMPTs genome wide in response to DNA damage. **A)** mNET-Seq metagene profiles showing sense and antisense transcription across GB of all genes from Y1P damage and no damage samples. **B)** Box plot indicates mNET-Seq read coverage across PROMPTs of all genes from Y1P damage and no damage samples. **C)** mNET-Seq metagene profiles showing sense and antisense transcription across GB of down-regulated genes from Y1P damage and no damage samples. **D)** mNET-Seq metagene profiles showing sense and antisense transcription across GB of up-regulated genes from Y1P damage and no damage samples. **E)** mNET-Seq metagene profiles showing sense and antisense transcription across GB of all genes from S2P damage and no damage samples. **F)** Box plot indicates mNET-Seq read coverage across PROMPTs of all genes from S2P damage and no damage samples. Two sample Wilcoxon test is used to compute statistical significance of PROMPT expression between damage and no damage sample.