



Figure S3. Analysis of long non-coding RNA (lncRNA) expression upon DNA damage. **A)** Venn diagram of significantly up-regulated ($\text{padj} < 0.05$, $\text{log}_2\text{FC} > 0.1$) lncRNA based on read coverage across gene body from Y1P, S2P and S5P samples after IR. **B)** Volcano plots of differentially expressed lncRNA based on read coverage across GB from Y1P samples upon IR. **C)** Pie chart showing proportion of differentially expressed ($\text{padj} < 0.05$) lncRNA which are sense, anti-sense and intergenic from Y1P samples upon IR. **D)** Venn diagram of significantly down-regulated ($\text{padj} < 0.05$, $\text{log}_2\text{FC} < -0.1$) lncRNA based on read coverage across gene body from Y1P, S2P and S5P samples after IR. **E)** Volcano plots of lncRNA based on read coverage across GB from S2P samples upon IR. **F)** Volcano plots of differentially expressed lncRNA based on read coverage across GB from S5P samples upon IR.