Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Quantification and statistical analysis for Chk2^{+/-} and Chk2^{-/-} untreated and AZT-

treated ovary experiments.

File Name: Supplementary Data 2

Description: Quantification and statistical analysis for meiotic progression in Chk2^{+/-} and

Chk2^{-/-} oocytes.

File Name: Supplementary Data 3

Description: Differential gene expression and gene ontology for untreated and AZT-treated

oocytes and ovaries.

File Name: Supplementary Data 4

Description: Small RNA length distribution and repeat alignment.

File Name: Supplementary Data 5

Description: Quantification and statistical analysis for Mili;Chk2 untreated and AZT-treated

ovary experiments.

File Name: Supplementary Data 6

Description: Differential gene expression in untreated and AZT-treated single-cell clusters.

File Name: Supplementary Data 7

Description: Quantification of follicles and fertility in Chk2^{+/-} untreated and Chk2^{-/-} untreated

and AZT-treated mice.