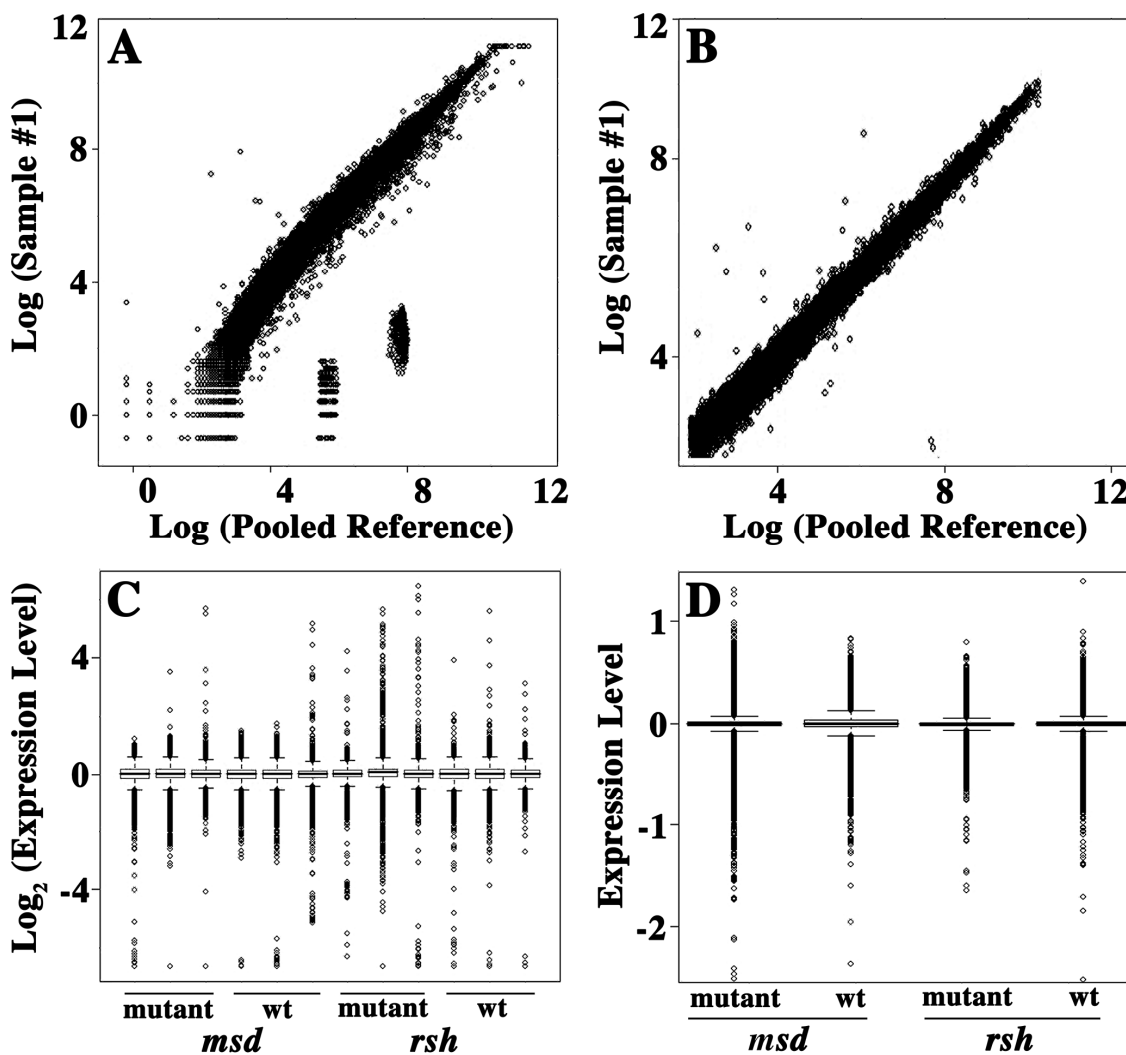995   **Supplemental Figure 1 –** processing and normalization of the microarray data for P16 *rsh* and *msd*

996   mice

997   (**A**) Example of a raw log – log correlation plot showing gene expression levels from the

998   Pooled Reference standard versus the data from microarray #1. (**B**) Transformation of the

999   plot in (A) to correct for nonlinearities in the microarray analysis. (**C**) Summary of log

1000   transformation for all microarray data used in this study. (**D**) Averaging of biological

1001   replicate samples with respect to genotype.

1002

1003