

Animal care and use statement

BXD and Mypn KI and KO mice described earlier were used.^[9-11] Mice were maintained in micro-isolator cages at 25° C under a 14/10 h light/dark cycle with free access to water and food.

Genotype of knock-in and knock-out mice was performed by PCR analysis of tail genomic DNA.

Genotyping of BXD mice was generated using GigaMUGA genotyping array that typed ~150,000 SNPs.

All animal studies were approved by institutional IACUC of the University of Tennessee Health Science Center (UTHSC).

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