

Supporting Information Figure 3. Genetic chimerism evaluated by Southern blot analysis.

Example of a Southern blot performed on genomic DNA extracted from five organs of two $Rb1^{F/F}$; $Trp53^{F/F}$ chimeras to determine the level of genetic chimerism with a probe that distinguishes between a wildtype Trp53 allele (13 Kb) or the floxed Trp53 allele (8 Kb) reflecting the contribution by the host ESCs or cultured ESCs, respectively. Controls were genomic DNA extracted from a spleen of a wildtype mouse and genomic DNA of an F1 offspring of an $Rb1^{F/F}$; $Trp53^{F/F}$ chimera, therefore having one conditional Trp53 allele and one wildtype Trp53 allele.