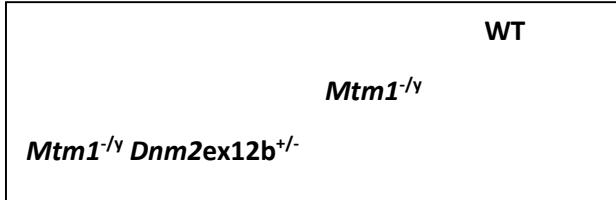


Description of Additional Supplementary Files

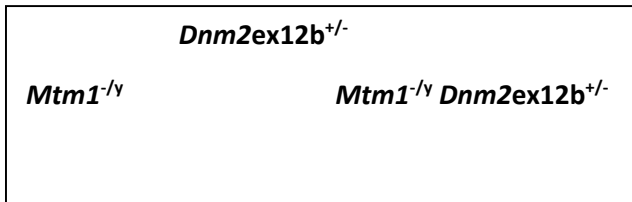
Supplementary Movie 1. 4-week-old, WT, $Mtm1^{-/y}$, $Mtm1^{-/y} Dnm2ex12b^{+/-}$ in a cage.

Starting position of the mice for video 1:



Supplementary Movie 2. 4-week-old, $Dnm2ex12b^{+/-}$, $Mtm1^{-/y}$, $Mtm1^{-/y} Dnm2ex12b^{+/-}$ in a cage.

Starting position of the mice for video 2:



Supplementary Movie 3. 4-week-old $Mtm1^{-/y}$, $Mtm1^{-/y} Dnm2ex12b^{+/-}$ on a grid.

Starting position of the mice for video 3:

