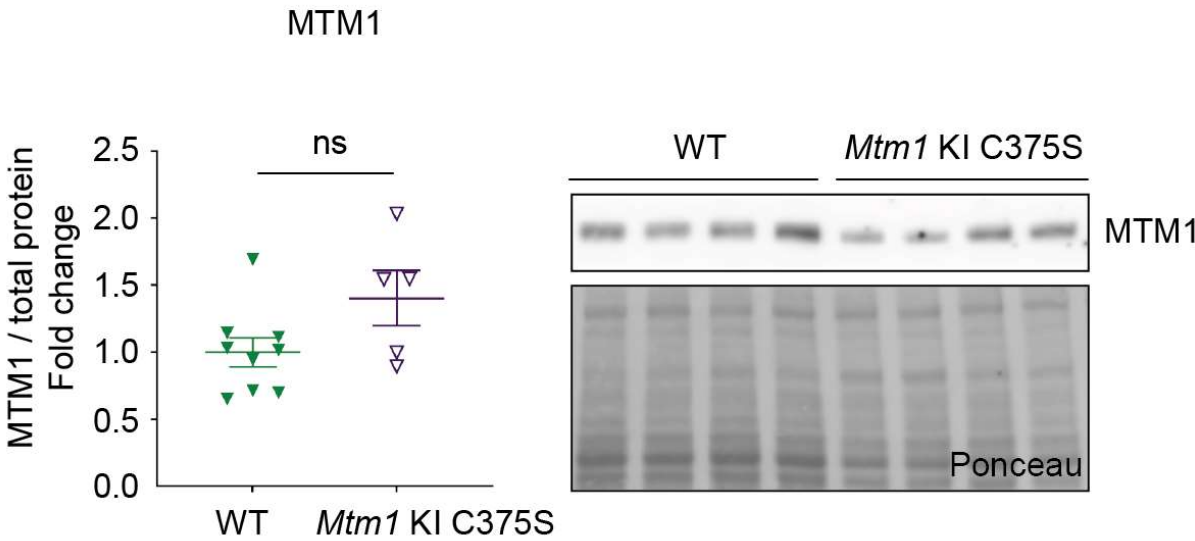
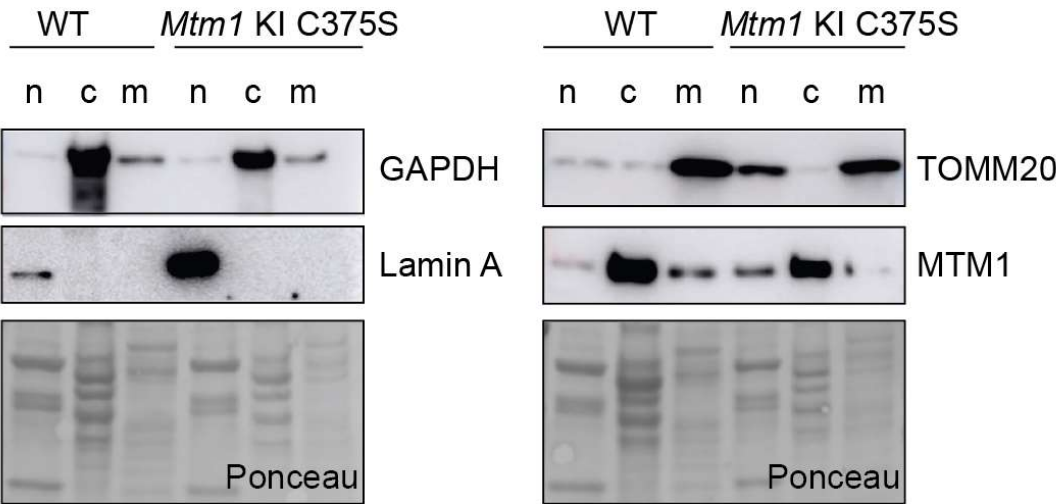


Supplemental Figure 1

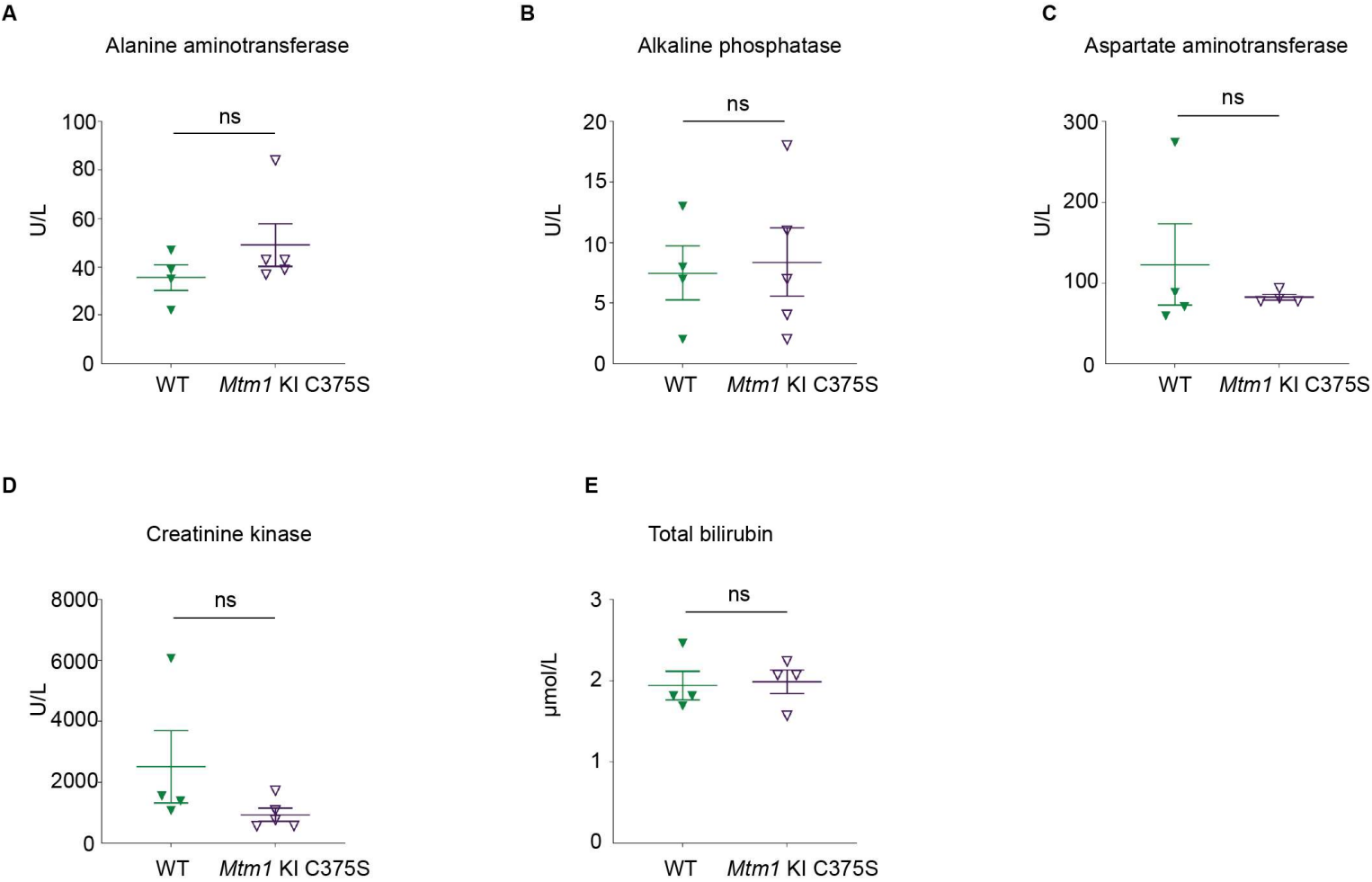
A



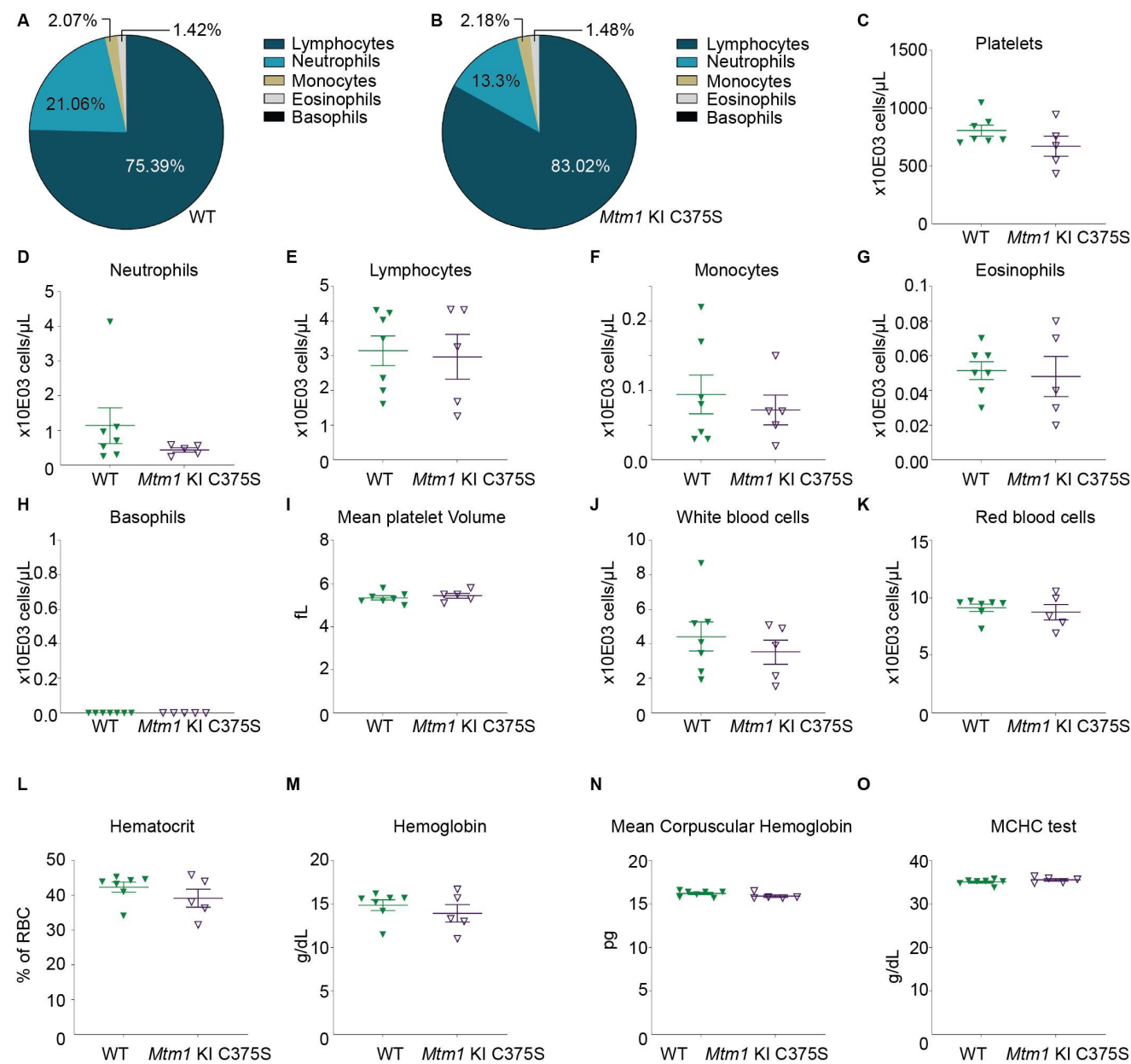
B



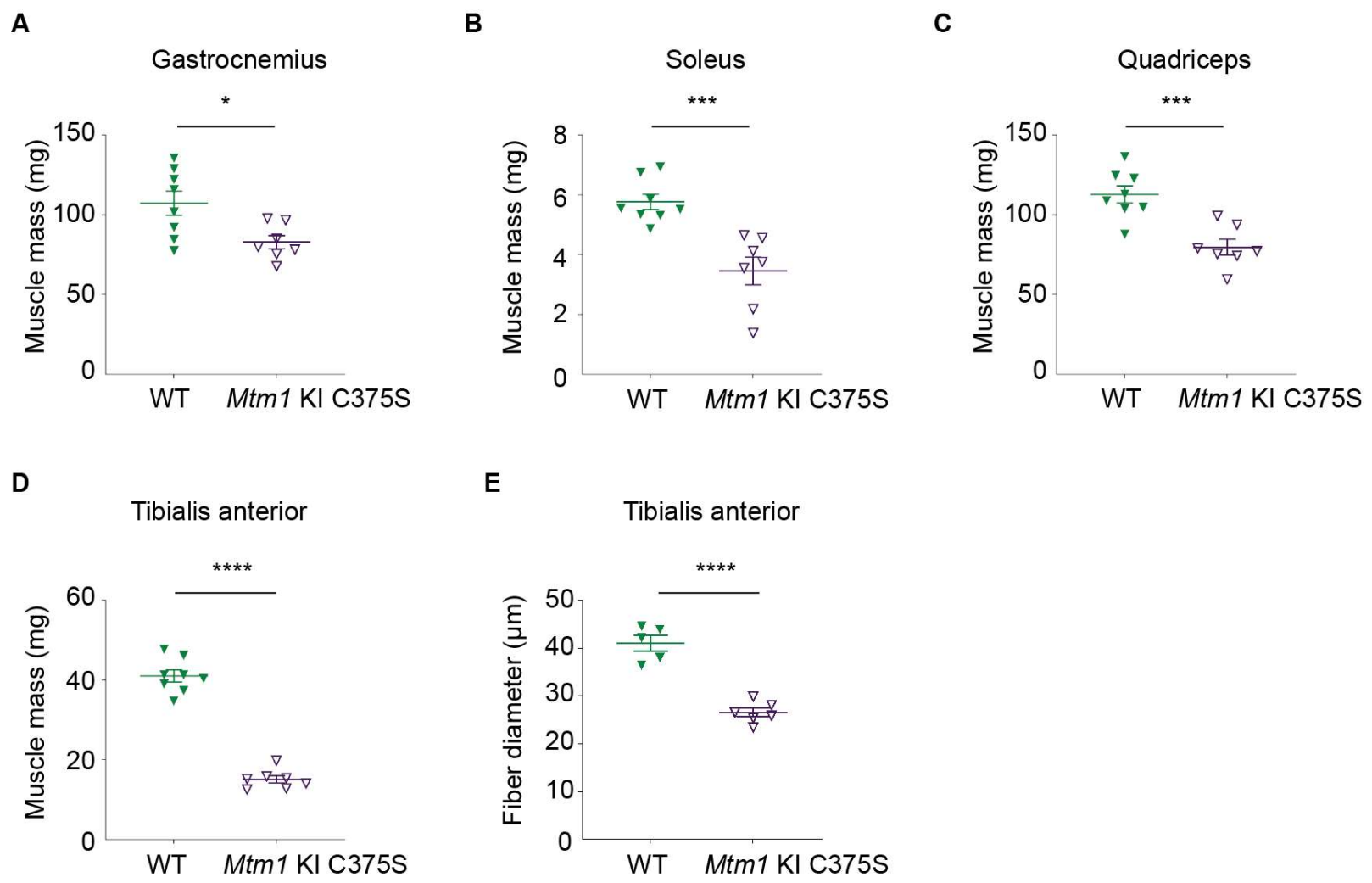
Supplemental Figure 2



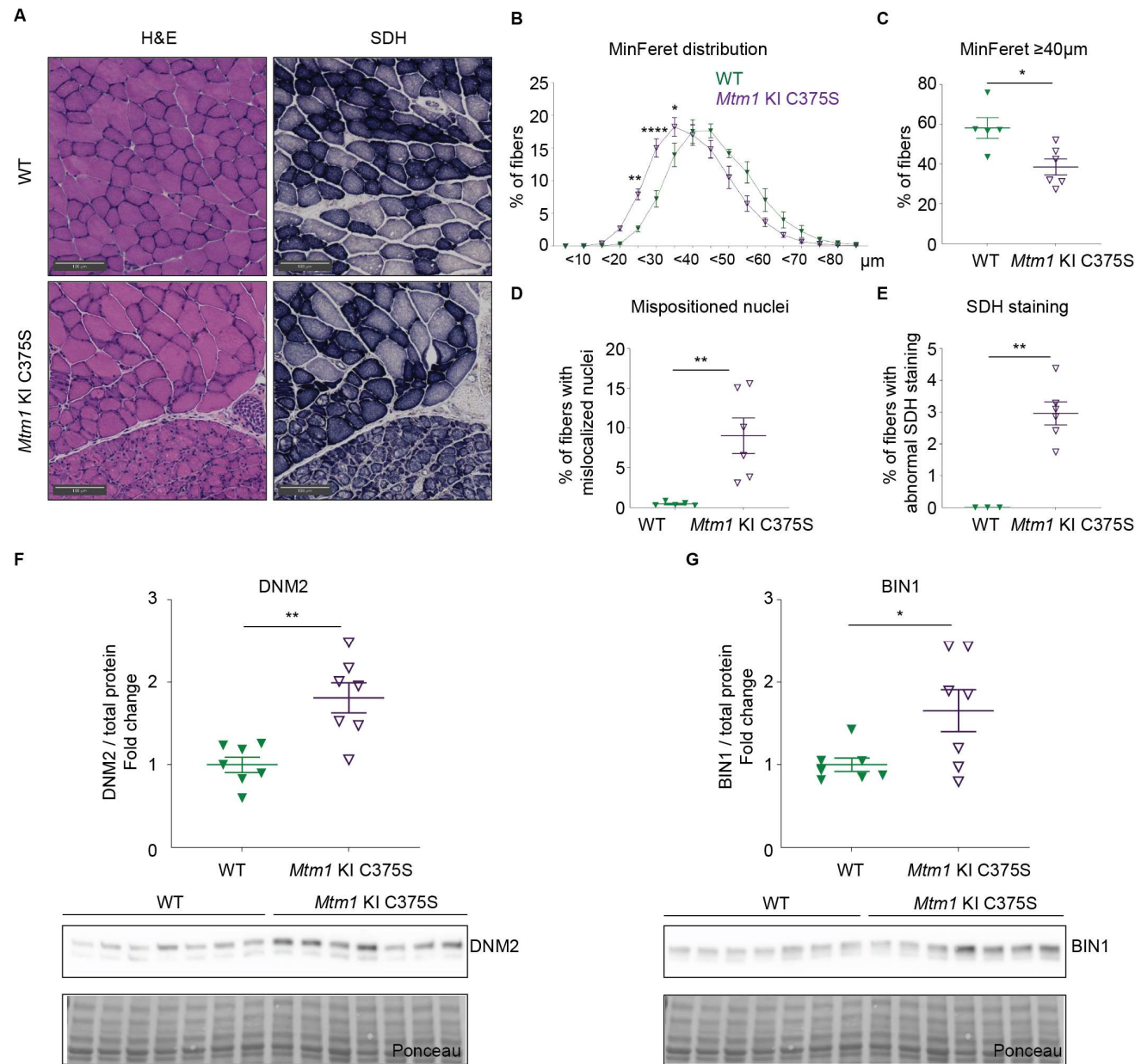
Supplemental Figure 3



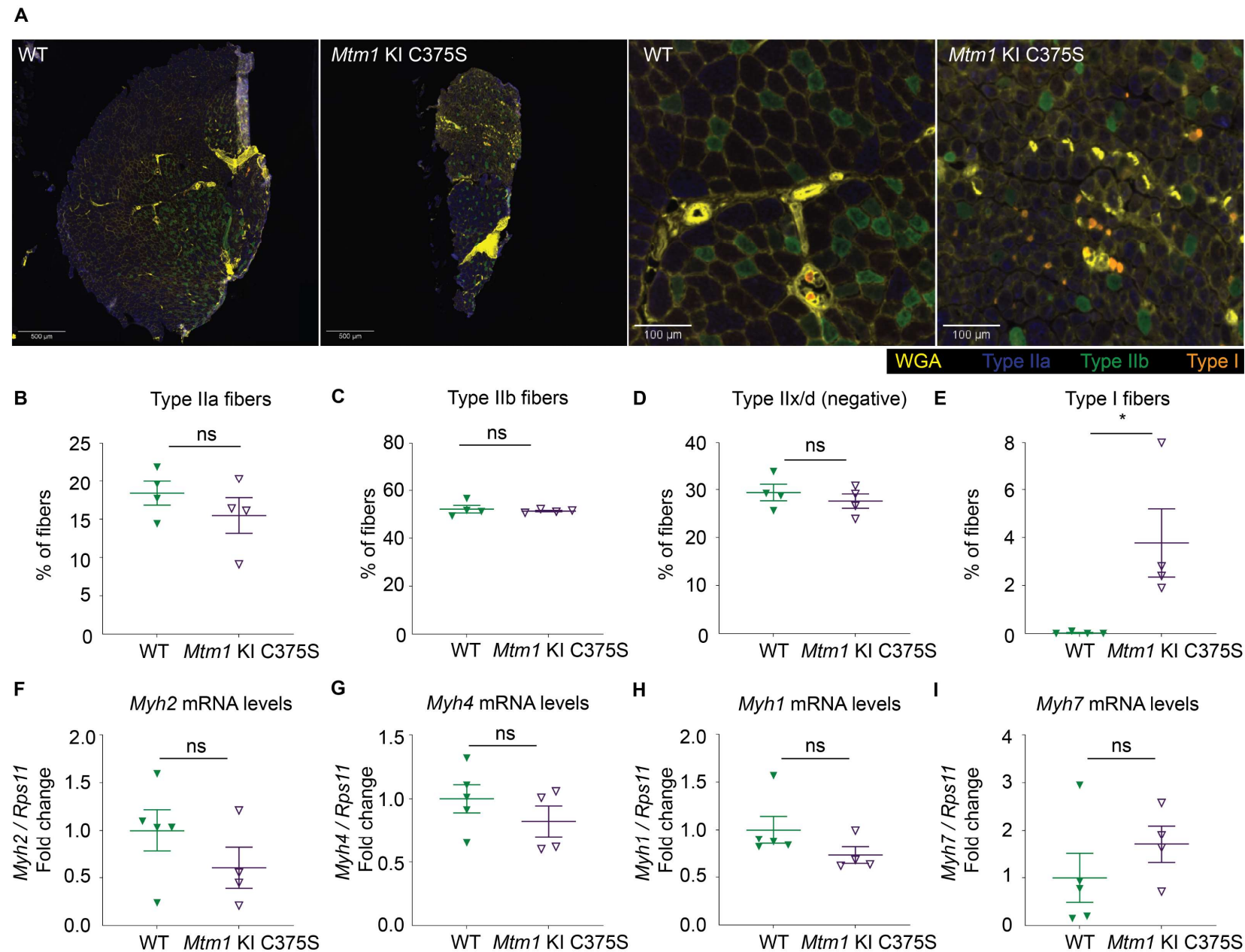
Supplemental Figure 4



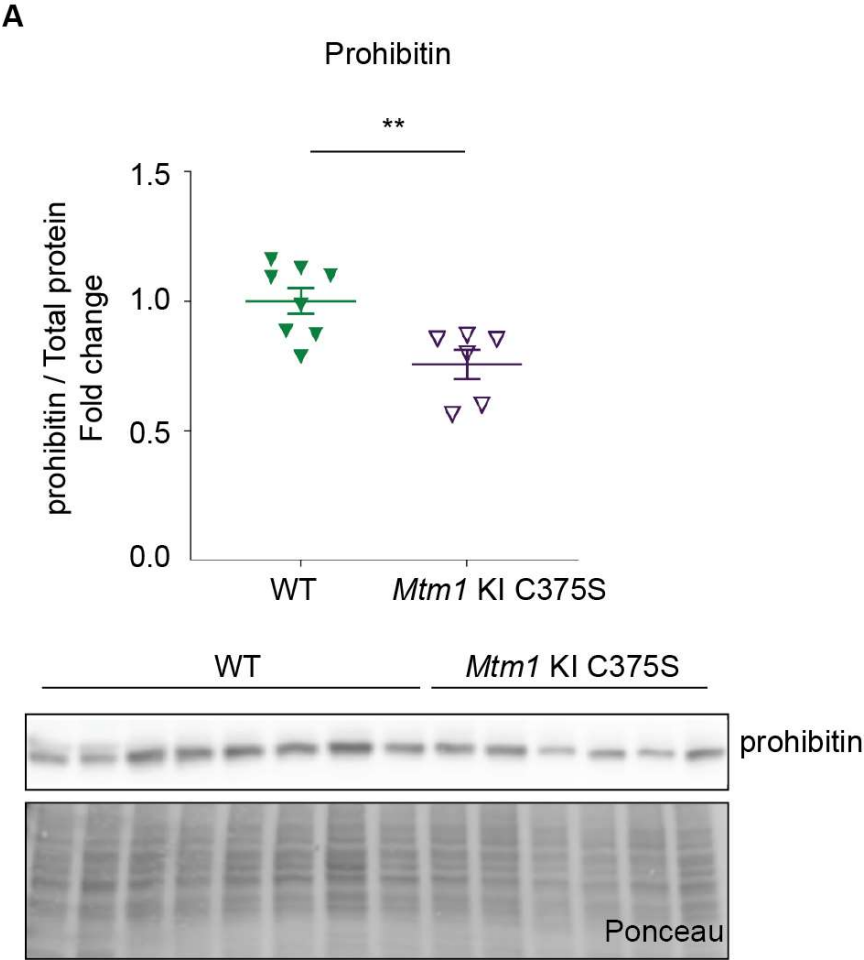
Supplemental Figure 5



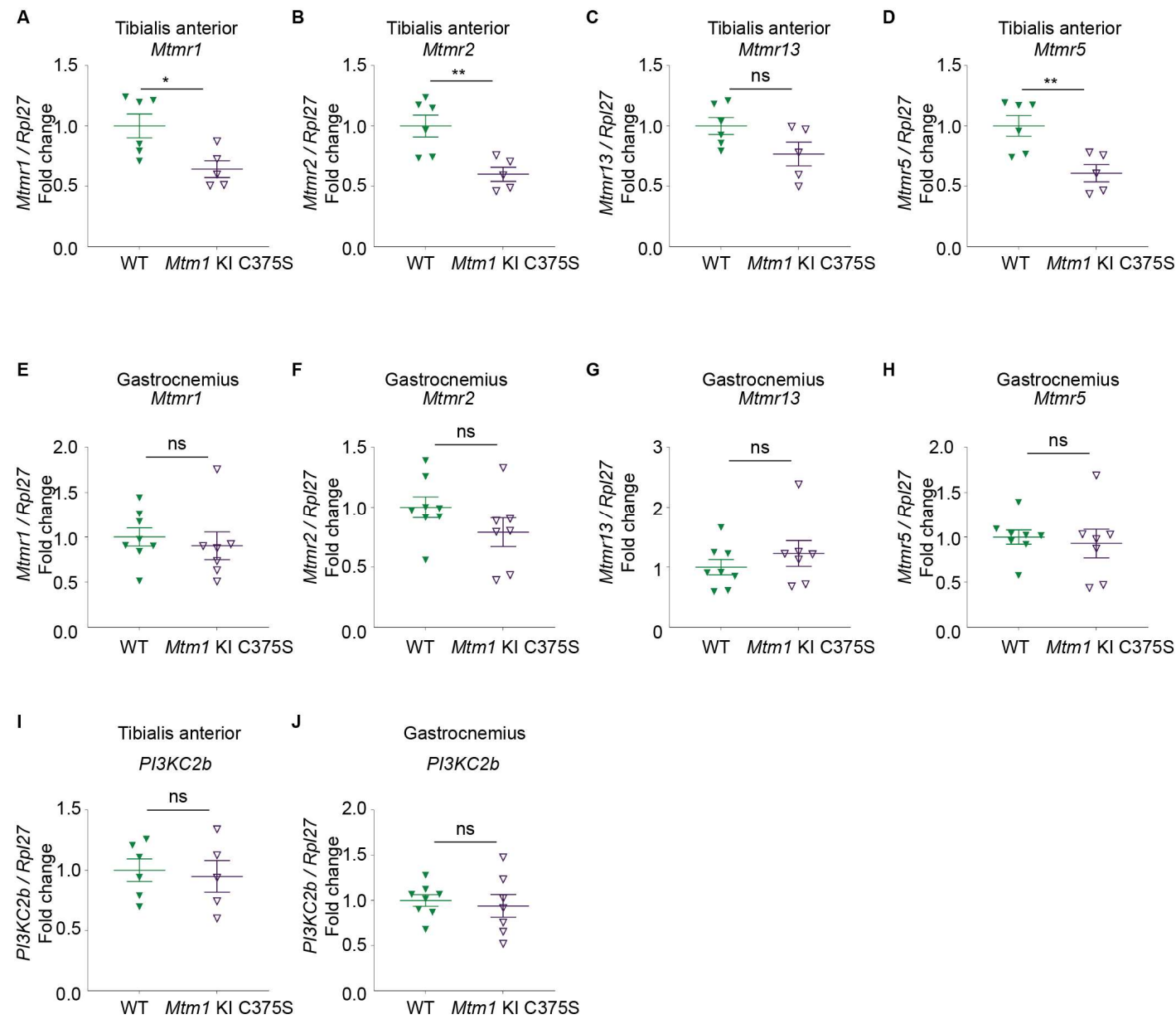
Supplemental Figure 6



Supplemental Figure 7



Supplemental Figure 8



Supplemental Table 1

Disease scoring factors	Description	Score
Body mass	Score 0-1 Difference in body mass from average of wildtype littermates	0 for 0-1g 0.5 for >1-2g 1 for >2g
Hanging test ability	Score 0-1 Representing 0 to 60 seconds hanging time	0 for 60s 0.5 for 5-59s 1 for <5s
Kyphosis	Score 0-1 Curvature of the spine	0 for no curvature 0.5 for mild curvature 1 for severe curvature
Walking difficulties	Score 0-1 Ability to use hind limbs	0 for normal use 0.5 for splayed use 1 for loss of use
Maximum score	4	