

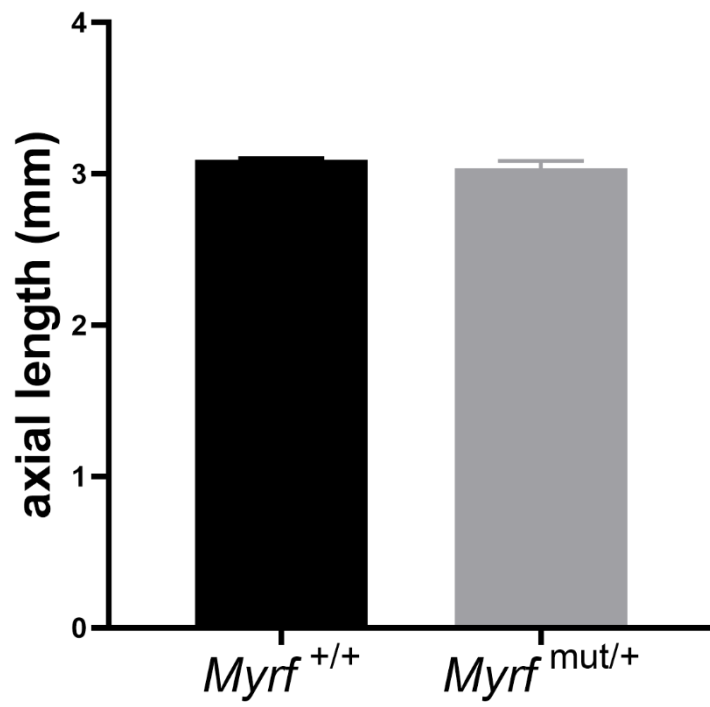
Supplementary Table 1. CRISPR single-guide RNAs sequences

5' Guide	Sequence (5'-3')
Guide#1	GCTGAACGGAATGATCAAGC AGG
Guide#2	CGTTCAGCATTGTTGGGCATTG AGG
Guide#3	GATCATTCCGTTTCAGCATT GGG
Guide#4	TTTGGGCATTGAGGGTGTG GGG
Guide#5	CTCAATGCCCAAATGCTGAA CGG
Guide#6	GGCAAGGCTGTGACAGTCCC AGG

Guide RNA (gRNA) target sequences and protospacer adjacent motif (PAM) sequence are underlined in black and red, respectively.

Supplementary Table 2. Primer sequences used for PCR and quantitative real-time PCR

Genes	Sequence (5'-3')	Product size
<i>Myrf-mutation</i>	Forward: CGGTACCTGAGGGCTTCCTGTAG	WT: 400bp Mut: 439bp
	Reverse: CAGTCCCCAGCATCAAAGGTCAG	
<i>Fbn-1</i>	Forward: CATTGTGGGCCCTGATGACT	95bp
	Reverse: TGCACTGCCCATGTCTACAG	
<i>Fbn-2</i>	Forward: TGTCCCCATTTGCAGGAACA	95bp
	Reverse: CTCCGCATGTCGGGGATATT	



Supplementary Figure 1. The axial length in *Myrf*^{+/+} and *Myrf*^{mut/+} mice. Data represent mean \pm SEM.