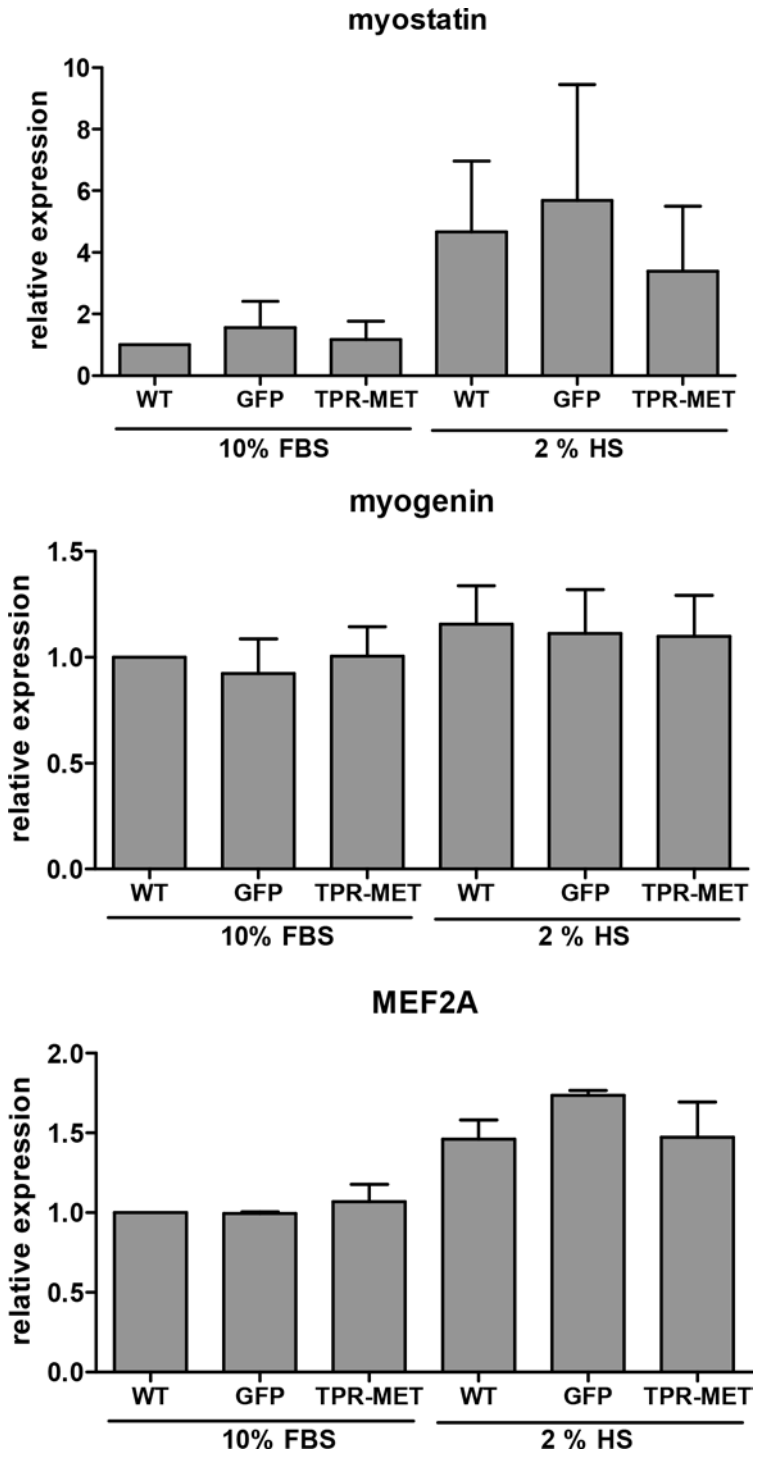
SUPPLEMENTARY TABLE AND FIGURES

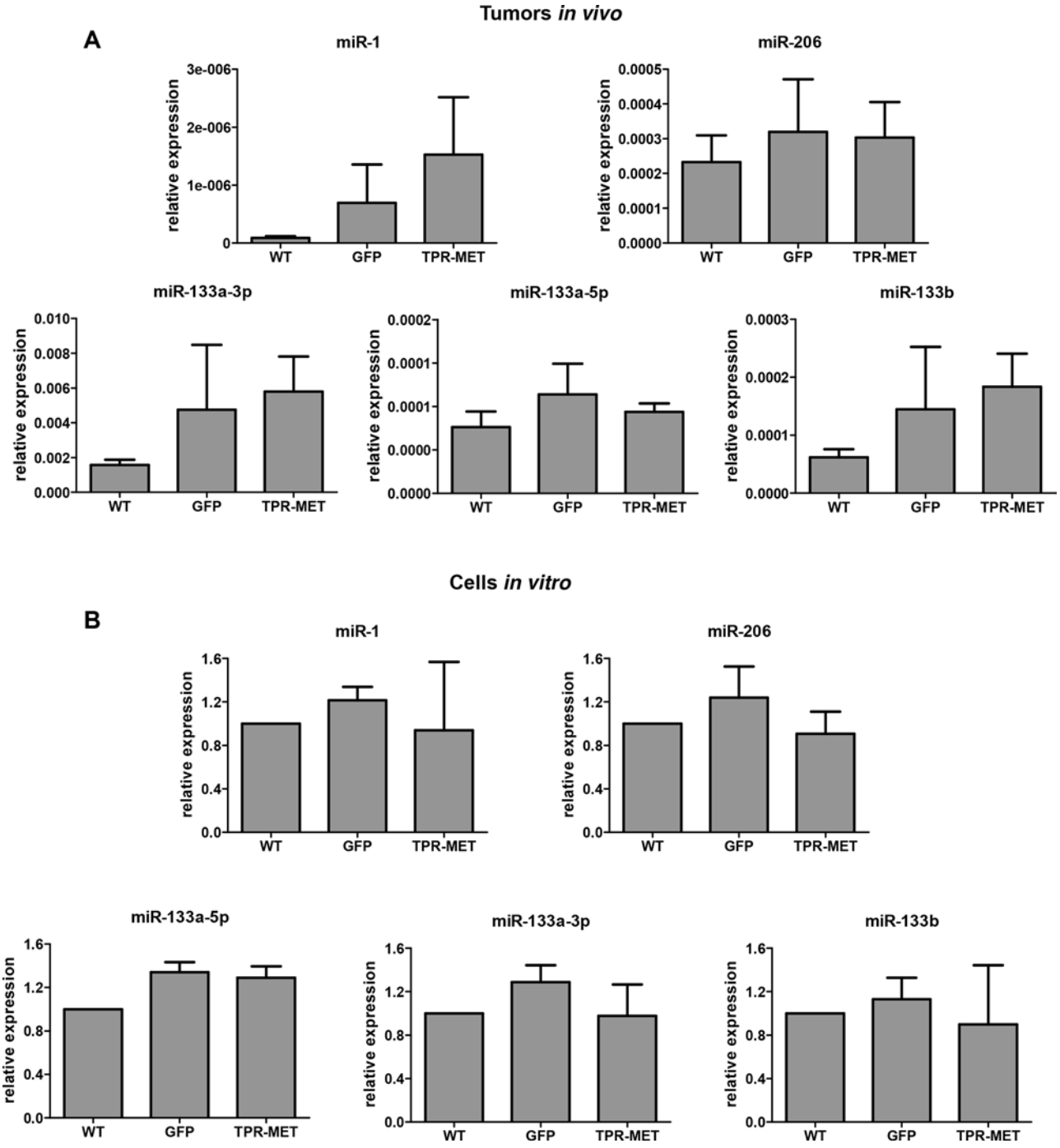
Supplementary Table 1: Values of the Pearson correlation between MET and myogenic differentiation markers in RMS tumors.

	MET	MYF5	MyoD	MEF2A	myogenin	myostatin	MYH2
MET		**R = –0.68** $p = 0.06$	**R = 0.87** $p = 0.005$	**R = –0.33** $p = 0.42$	**R = –0.43** $p = 0.29$	**R = 0.26** $p = 0.53$	**R = -0.55** $p = 0.16$
MYF5	**R = –0.68** $p = 0.06$		**R = –0.58** $p = 0.14$	**R = –0.08** $p = 0.86$	**R = 0.16** $p = 0.71$	**R = 0.02** $p = 0.96$	**R = 0.45** $p = 0.26$
MyoD	**R = 0.87** $p = 0.005$	**R = –0.58** $p = 0.14$		**R = –0.37** $p = 0.36$	**R = –0.42** $p = 0.30$	**R = 0.27** $p = 0.52$	**R = –0.39** $p = 0.34$
MEF2A	**R = –0.33** $p = 0.42$	**R = –0.08** $p = 0.86$	**R = –0.37** $p = 0.36$		**R = 0.92** $p = 0.001$	**R = –0.49** $p = 0.22$	**R = 0.69** $p = 0.06$
myogenin	**R = –0.43** $p = 0.29$	**R = 0.16** $p = 0.71$	**R = –0.42** $p = 0.30$	**R = 0.92** $p = 0.001$		**R = –0.21** $p = 0.62$	**R = 0.89** $p = 0.003$
myostatin	**R = 0.26** $p = 0.53$	**R = 0.02** $p = 0.96$	**R = 0.27** $p = 0.52$	**R = –0.49** $p = 0.22$	**R = –0.21** $p = 0.62$		**R = 0.0005** $p = 0.99$
MYH2	**R = –0.55** $p = 0.16$	**R = 0.45** $p = 0.26$	**R = –0.39** $p = 0.34$	**R = 0.69** $p = 0.06$	**R = 0.89** $p = 0.003$	**R = 0.0005** $p = 0.99$	

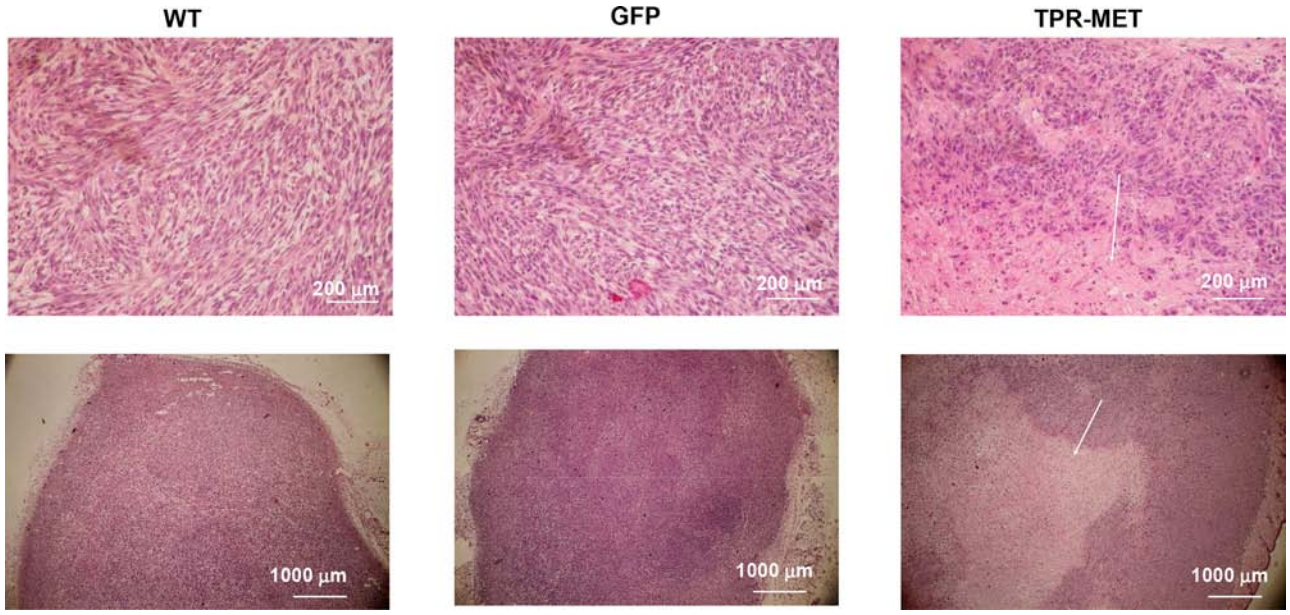
Expression of genes was evaluated by qPCR in paraffin-embedded RMS specimens, $n = 8$, R = correlation coefficient, $p < 0.05$ considered as significant.



Supplementary Figure 1: Myostatin and MEF2A are slightly upregulated in SMS-CTR cells cultured in DMEM with 2% HS. Expression of myostatin, myogenin and MEF2A was evaluated by qPCR in samples from SMS-CTR cells, $n = 2$. Data in graphs are represented as mean +/− SEM.



Supplementary Figure 2: The effects of TPR-MET are independent of myomiRs action. Expression of miR-1, miR-206, miR-133a-3p, miR-133a-5p and miR-133b was estimated by quantitative PCR in tumors formed by SMS-CTR cells after subcutaneous implantation to NOD-SCID mice, $n = 4–5$ **(A)** and in SMS-CTR cells *in vitro*, $n = 2$ **(B)** Data in graphs are represented as mean +/− SEM.



Supplementary Figure 3: Necrosis in tumors formed by SMS-CTR cells expressing TPR-MET. Representative images of tumors sections stained with hematoxylin-eosin show necrotic areas in TPR-MET tumors, which are indicated with arrows.