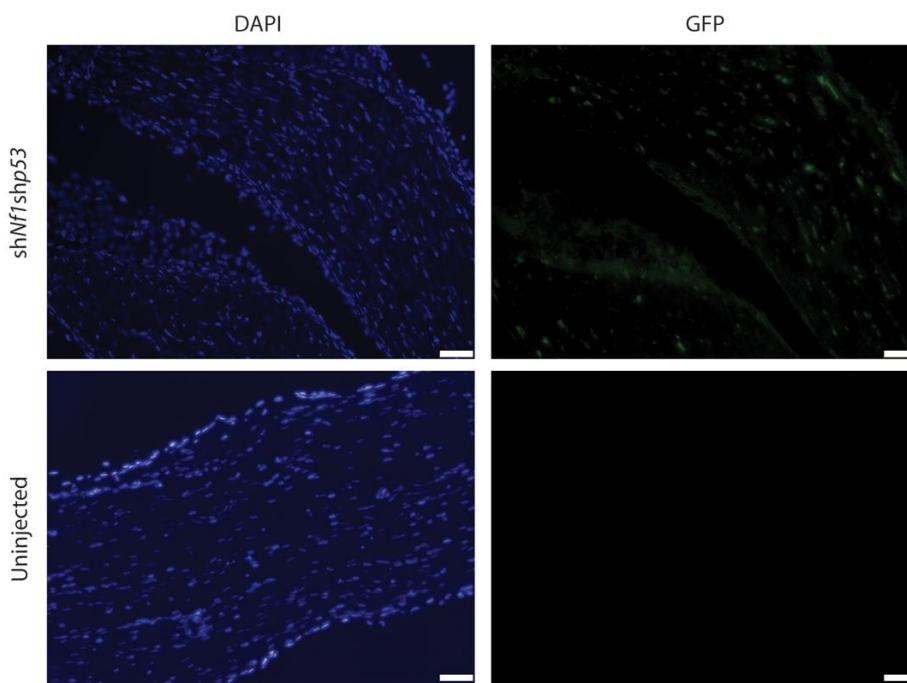


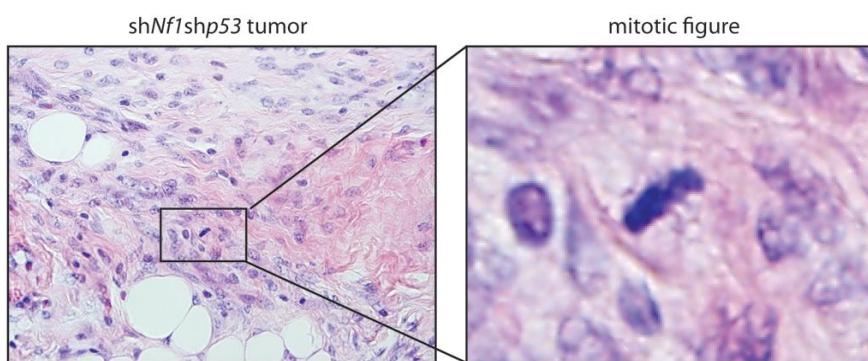
## Spatially- and temporally-controlled postnatal p53 knockdown cooperates with embryonic Schwann cell precursor *Nf1* gene loss to promote malignant peripheral nerve sheath tumor formation

### Supplementary Material

a



b



**Supplemental Figure 1.** (a) GFP-positive cells are apparent seven days after the injection of pTomo-sh*Nf1*;sh*p53* virus into the right sciatic nerve. 50 $\mu$ m scale bar. (b) Representative image of mitotic figures in a MPNST arising in a Periostin-Cre; *Nf1*<sup>fl/fl</sup> mouse following the injection of pTomo-sh*Nf1*;sh*p53* virus into the right sciatic nerve.

**Supplemental Table 1. Current MPNST murine models**

Mouse Model	Tumor phenotype	Genetic Background	Reference
<i>Nf1</i> <sup>+/null</sup> ; <i>Trp53</i> <sup>+/null</sup> cis	MPNSTs in 30% mice, 5 months	129sv x C57BL/6	[15, 16]
<i>Nf1</i> <sup>flox/flox</sup> , <i>Ink4aArf</i> <sup>flox/flox</sup> , adenoviral Cre injected into the sciatic nerves	MPNSTs in almost all mice by 4-6 months	<i>Nf1</i> <sup>flox/flox</sup> : 129sv x C57BL/6 <i>Ink4a</i> <sup>flox/flox</sup> : FVB	[19]
<i>Nf1</i> <sup>flox/flox</sup> ; <i>Dhh-Cre</i> ; Cnp-EGFR	MPNSTs in 33% mice, 4-8 months	Cnp-EGFR: C57BL/6 <i>Nf1</i> <sup>flox/flox</sup> ; <i>Dhh-Cre</i> : 129sv x C57BL/6	[17]
<i>Trp53</i> <sup>R270H</sup> ; Cnp-EGFR	MPNSTs in 18% mice, median 284 days	Cnp-EGFR: FVB/N	[7]
P <sub>0</sub> -GGFβ3 transgenic	MPNSTs 70%, 6-10 months	backcrossed to C57BL/6J x SJL/J F1	[43, 45]
P <sub>0</sub> -GGFβ3 inbred P <sub>0</sub> -GGFβ3; <i>Nf1</i> <sup>+/null</sup> P <sub>0</sub> -GGFβ3; <i>Trp53</i> <sup>+/null</sup>	No tumors No tumors MPNSTs in 95% mice, 226 days	C57BL/6J	[44]
GFAP-Cre; <i>Pten</i> <sup>flox/+</sup> ; <i>LSL-Kras</i> <sup>G12D/+</sup>	MPNSTs in 100% mice, 4 months	C57BL/6 x 129sv x BALB/c	[18]
<i>Nf1</i> <sup>+/null</sup> ; <i>p19Arf</i> <sup>+/null</sup>	MPNSTs in 10% mice, 36 weeks	<i>Nf1</i> <sup>+/null</sup> : 129sv <i>p19Arf</i> <sup>+/null</sup> : 129svJ6 x C57BL/6	[20]

**Supplemental Table 2. Antibodies used**

Antibody	Dilution	Antigen Retrieval	Secondary Antibody
S100 $\beta$ (ab41548; Abcam)	1:250	Citrate buffer	Rabbit
Ki67 (790-4286; Ventana)	Pre-diluted	CC1 buffer (950-124, Ventana)	Rabbit
Tryptase (760-4276; Ventana)	Pre-diluted	CC1 buffer (950-124, Ventana)	Mouse
Col4A (ab6586; Abcam)	1:1000	Citrate buffer	Rabbit