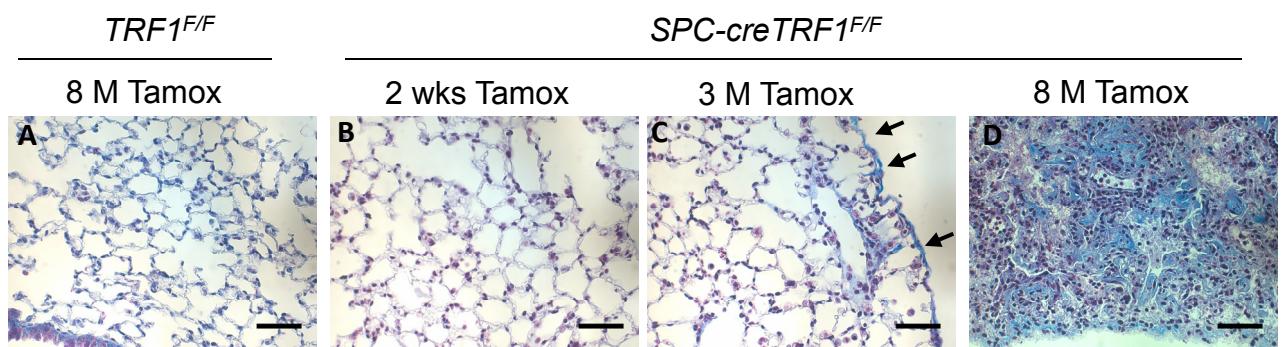


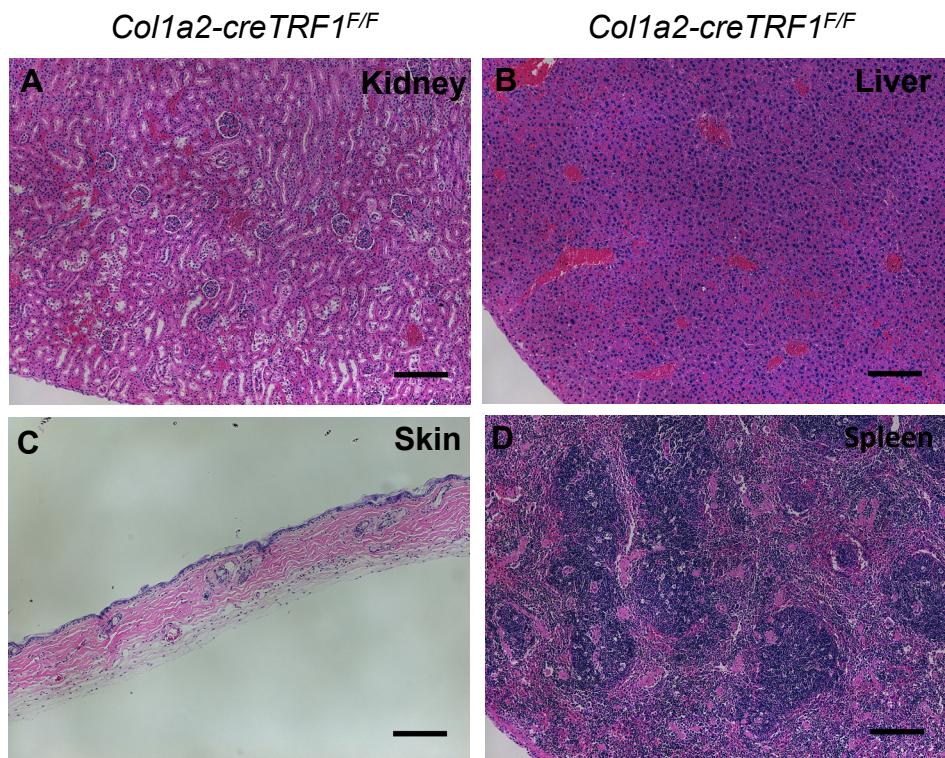
Supplemental Figure S1



Supplemental Figure S1. Masson's Trichrome staining on lung sections (A-D).

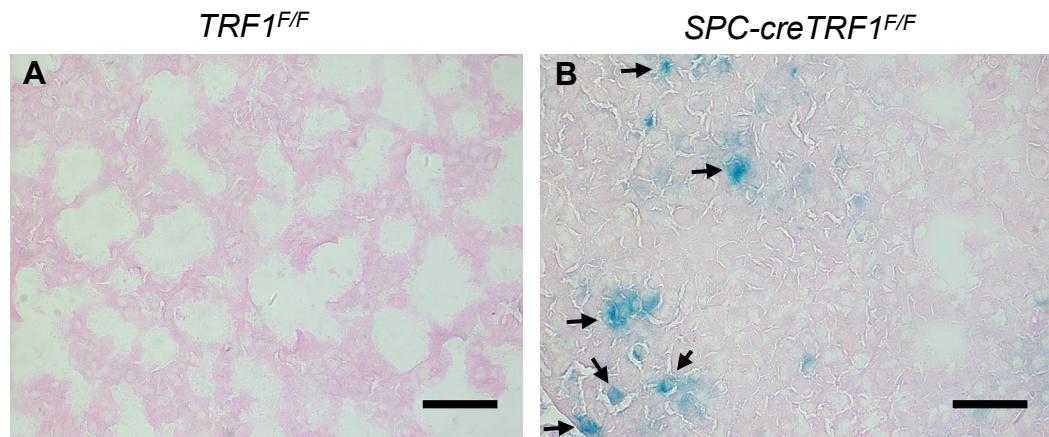
Trichrome staining of lung sections from *SPC-creTRF1^{F/F}* mice (2 weeks, 3 months and 8 months post tamoxifen administration) and *TRF1^{F/F}* mice (8 months post tamoxifen). Magnification 40X. Scale bar 50um. Note the blue collagen fiber deposition in panel C marked by arrows and in panel D.

Supplemental Figure S2



Supplemental Figure S2. Telomere dysfunction in mesenchymal cells shows no evidence of pathology in kidney, liver, spleen and skin. H&E staining of (A) Kidney (B) Liver (C) Skin and (D) Spleen sections from *Col1a2-creTRF1^{F/F}* mice 48 hours after injection with tamoxifen (250 mg/kg body weight) show no pathologic abnormality. Magnification 10X. Scale bar 300um.

Supplemental Figure S3



Supplemental Figure S3. Cytochemical detection of SA- β -gal staining (A-B).
SA- β -gal staining of frozen lung sections from *SPC-creTRF1^{FF}* mice and *TRF1^{FF}* mice (8 months post tamoxifen). Magnification 40X. Scale bar 50 μ m. Blue stained cells marked by black arrows are present in *SPC-creTRF1^{FF}* lungs and not *TRF1^{FF}* lungs.

Supplemental Table 1

	Cell type	<i>TRF1</i> ^{F/F}	<i>SPC-cre TRF1</i> ^{F/F}
		Mean ± SEM	Mean ± SEM
CD45 Positive gate	CD45 positive (Leukocytes)	30.07±3.75	44.43±10.08
	CD3 positive (T-cells)	4.34±0.72	6.680±1.51
	CD16/32 positive (B-cells)	2.71±0.46	4.36±0.88
	Collagen and CXCR4 positive (Fibrocytes)	0.92±0.28	1.06±0.43
	CD206 positive (Macrophages)	3.05±0.38	3.98±0.29
	IL21R positive (Th-17 cells)	0.66±0.04	0.90±0.15

Supplemental Table 1. Immunophenotyping of mouse lungs from *SPC-creTRF1*^{F/F} mice and *TRF1*^{F/F} mice by flow cytometry. Whole lung cell suspension prepared as described in methods was analyzed by flow cytometry. Analysis was done on lungs from *SPC-creTRF1*^{F/F} mice and *TRF1*^{F/F} mice (8 months post tamoxifen administration). Data was quantified as percentage of total cells analyzed. N=3 mice per group. Data was not significantly different between the two groups. *t*-test.

Supplemental Table 2

	Cell type	<i>TRF1</i> ^{F/F}	<i>Col1a2cre TRF1</i> ^{F/F}
		Mean \pm SEM	Mean \pm SEM
CD45 Neg	Collagen Positive cells	17.75 \pm 3.550	13.47 \pm 1.738
CD45 Pos	CD45 positive cells	34.89 \pm 1.94	37.56 \pm 5.08
	CD3 positive (T-cells)	7.77 \pm 1.3	7.6 \pm 2.02
	CD16/32 positive (B-cells)	2.55 \pm 0.85	3.08 \pm 0.09
	Collagen positive (Fibrocytes)	0.52 \pm 0.25	0.55 \pm 0.15
	F4/80 positive (Macrophages)	5.97 \pm 0.13	5.2 \pm 0.54

Supplemental Table 2. Immunophenotyping of mouse lungs from *Col1a2-creTRF1*^{F/F} mice and *TRF1*^{F/F} mice by flow cytometry. Whole lung cell suspension prepared as described in methods was analyzed by flow cytometry. Analysis was done on lungs from *Col1a2-creTRF1*^{F/F} mice and *TRF1*^{F/F} mice (48 hours post tamoxifen administration). Data was quantified as percentage of total cells analyzed. N=3 mice per group. Data was not significantly different between the two groups. *t*-test.