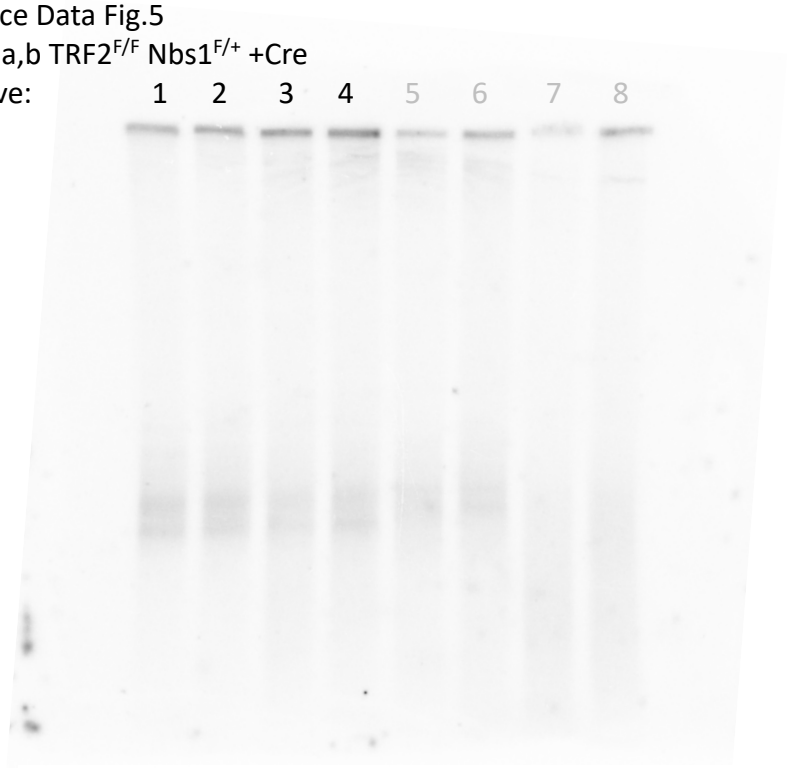
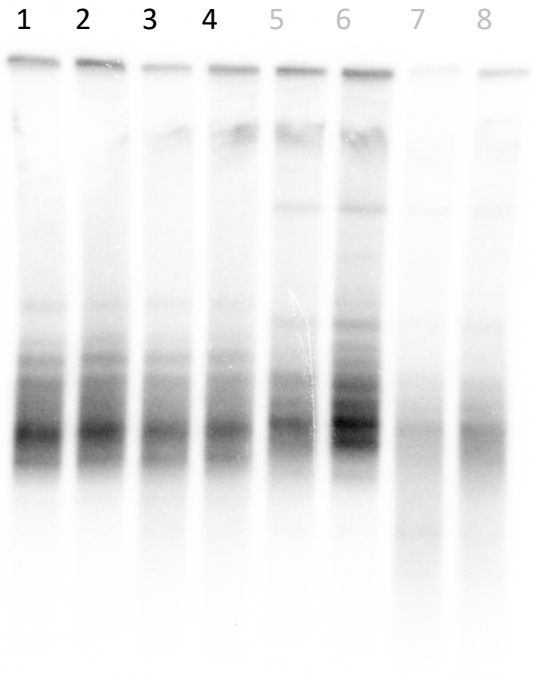
Source Data Fig.5

Fig.5a,b $TRF2^{F/F}$ $Nbs1^{F/+}$ +Cre

Native: 1 2 3 4 5 6 7 8



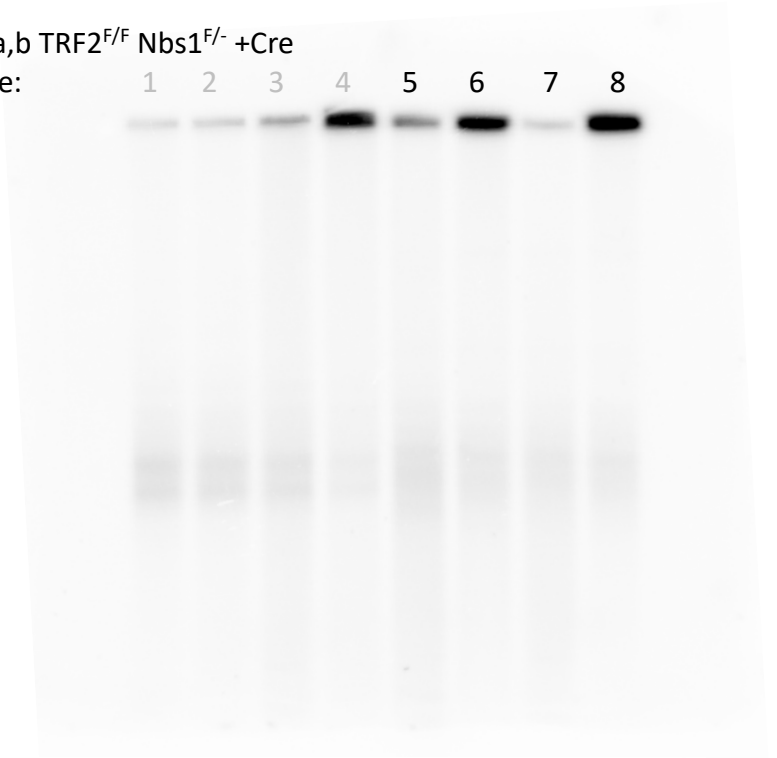
Denatured: 1 2 3 4 5 6 7 8



1. $TRF2^{F/F}$ $Nbs1^{F/+}$ +Cre + WT TRF2
2. $TRF2^{F/F}$ $Nbs1^{F/+}$ +Cre + ΔiDDR TRF2
3. $TRF2^{F/F}$ $Nbs1^{F/+}$ +Cre + F120A TRF2
4. $TRF2^{F/F}$ $Nbs1^{F/+}$ +Cre + F120A/ΔiDDR TRF2
5. /
6. /
7. /
8. /

Fig.5a,b TRF2$^{F/F}$ Nbs1$^{F/-}$ +Cre

Native: 1 2 3 4 5 6 7 8



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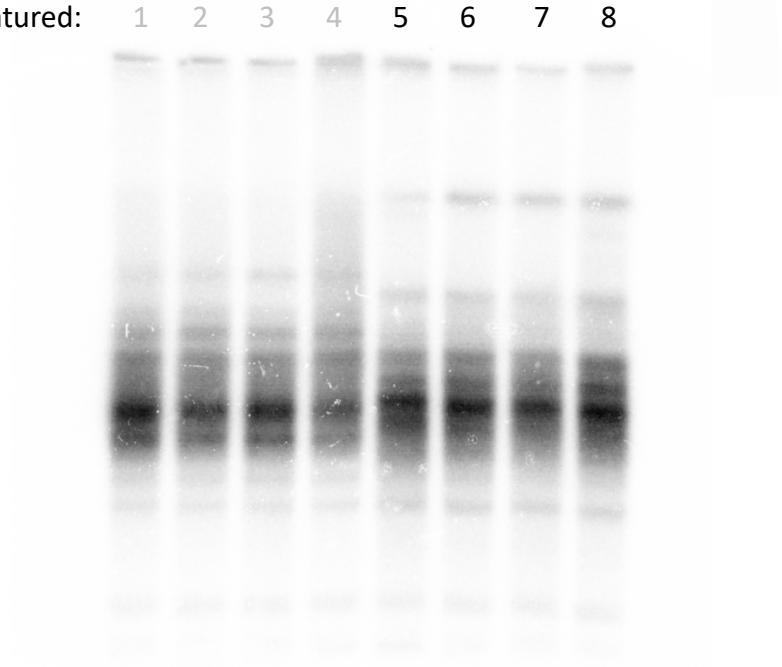
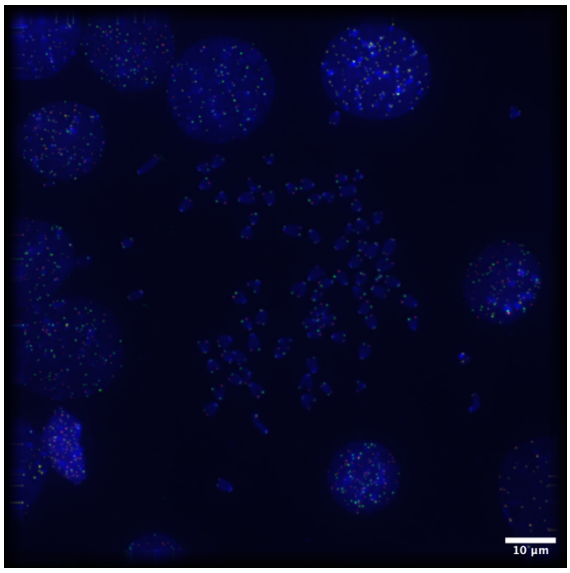


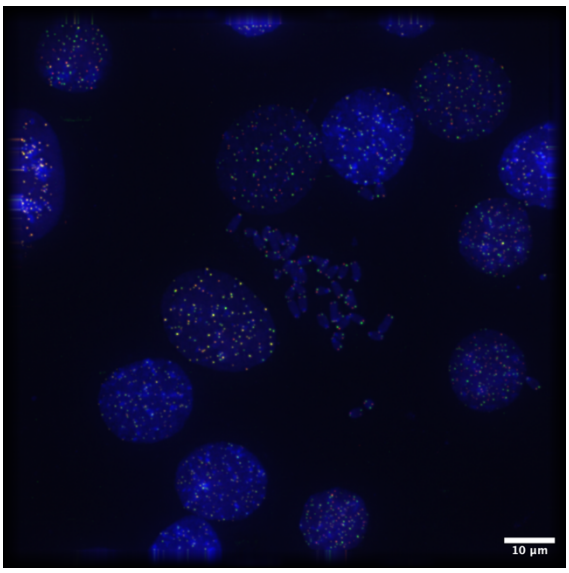
1. /
2. /
3. /
4. /
5. TRF2$^{F/F}$ Nbs1$^{F/-}$ +Cre + WT TRF2
6. TRF2$^{F/F}$ Nbs1$^{F/-}$ +Cre + ΔiDDR TRF2
7. TRF2$^{F/F}$ Nbs1$^{F/-}$ +Cre + F120A TRF2
8. TRF2$^{F/F}$ Nbs1$^{F/-}$ +Cre + F120A/ΔiDDR TRF2

Fig.5c, d
Blue: DAPI (DNA)
Green: Cy3-OO-$(CCCTAA)_3$ (Lagging-end telomeres)
Red: Alexa-647-$(TTAGGG)_3$ (Leading-end telomeres)

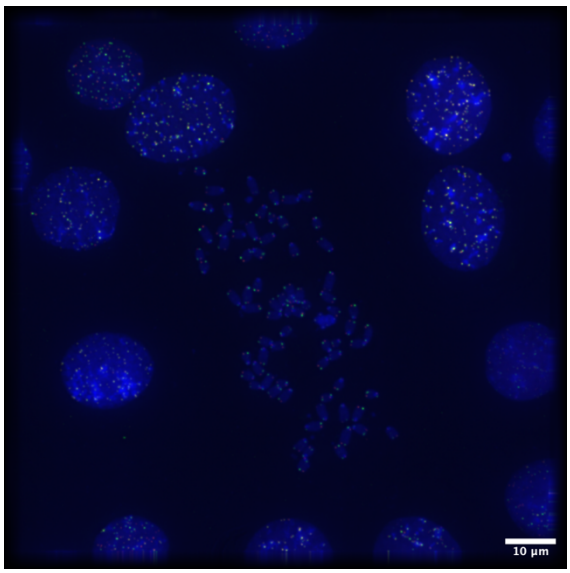
TRF2$^{F/F}$ Nbs1$^{F/+}$ +Cre +WT TRF2:



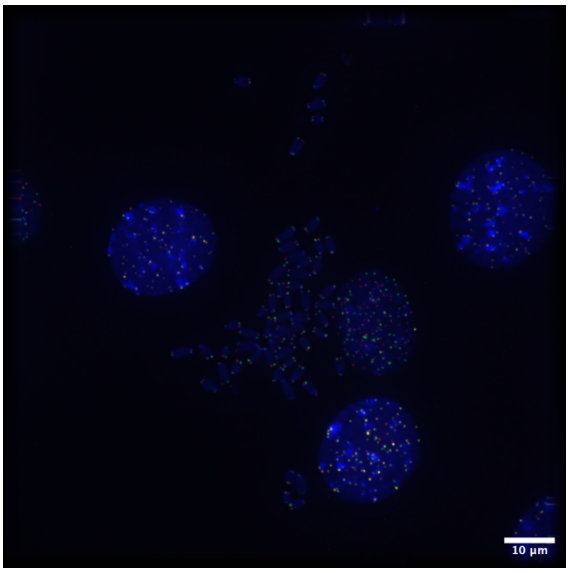
TRF2$^{F/F}$ Nbs1$^{F/+}$ +Cre +ΔiDDR TRF2:



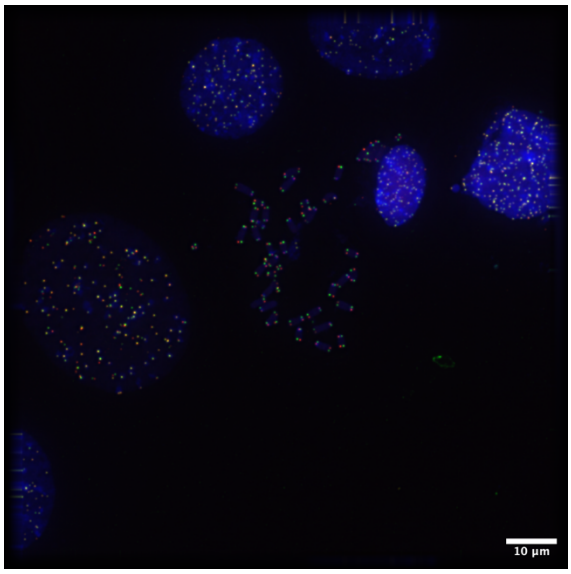
TRF2$^{F/F}$ Nbs1$^{F/+}$ +Cre +F120A TRF2:



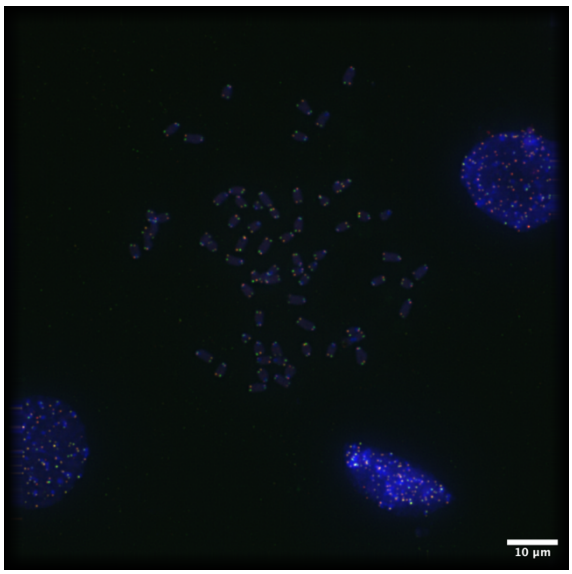
TRF2$^{F/F}$ Nbs1$^{F/+}$ +Cre +F120A/ΔiDDR TRF2:



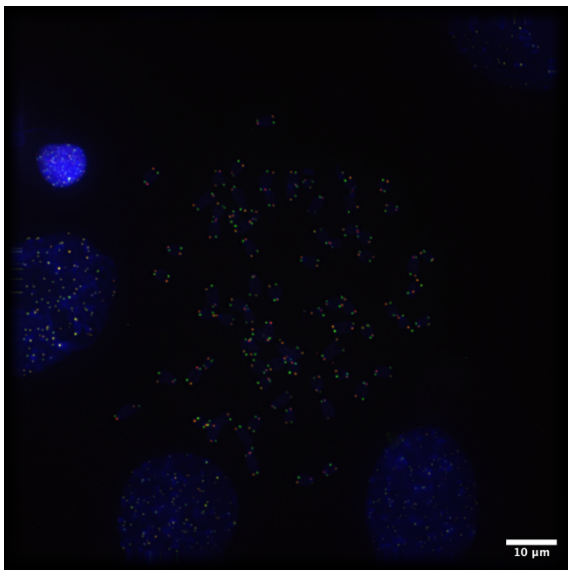
TRF2$^{F/F}$ Nbs1$^{F/-}$ +Cre +WT TRF2:



TRF2$^{F/F}$ Nbs1$^{F/-}$ +Cre +ΔiDDR TRF2:



TRF2$^{F/F}$ Nbs1$^{F/-}$ +Cre +F120A TRF2:



TRF2$^{F/F}$ Nbs1$^{F/-}$ +Cre +F120A/ΔiDDR TRF2: