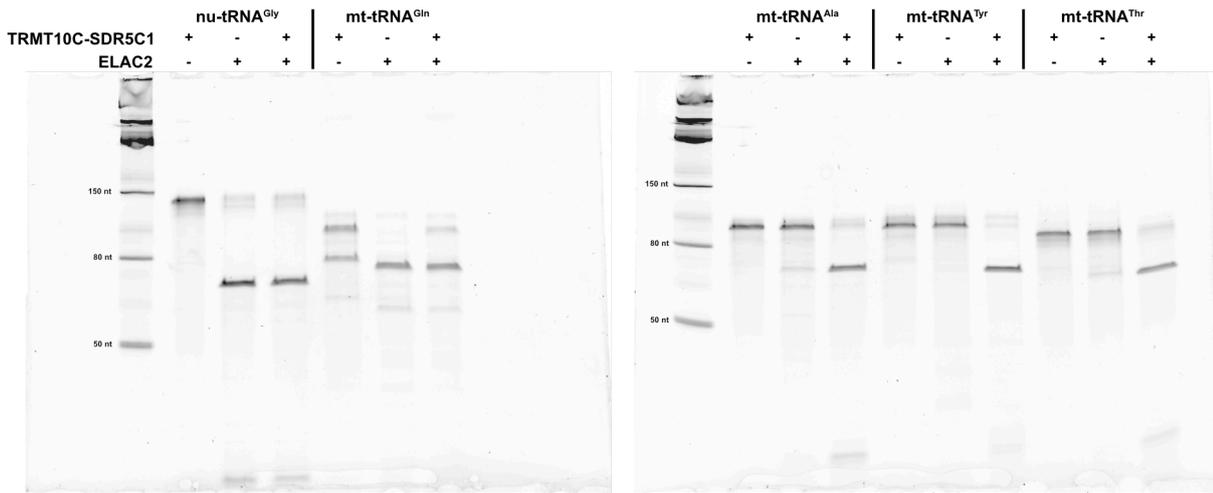
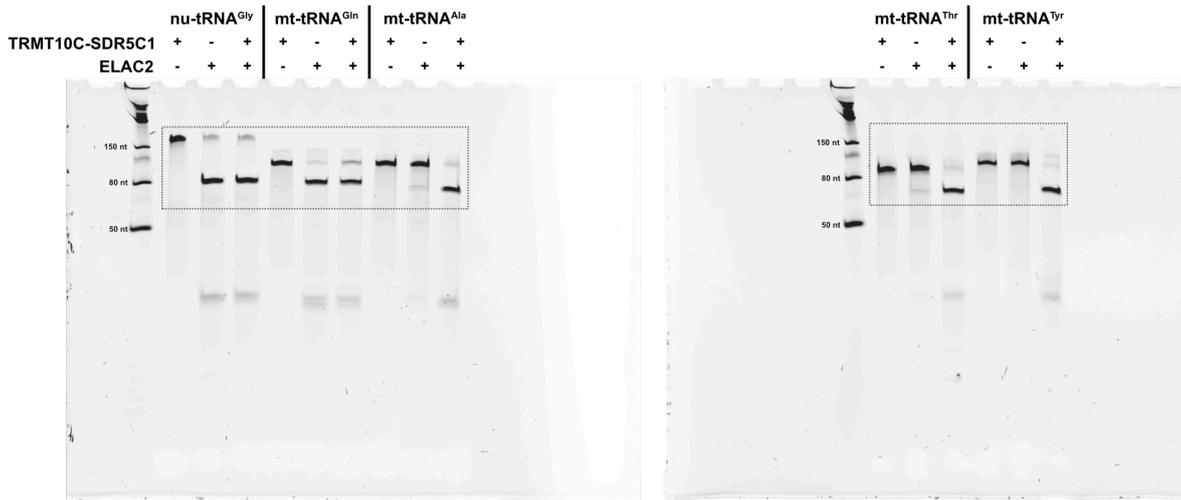


Figure 1d

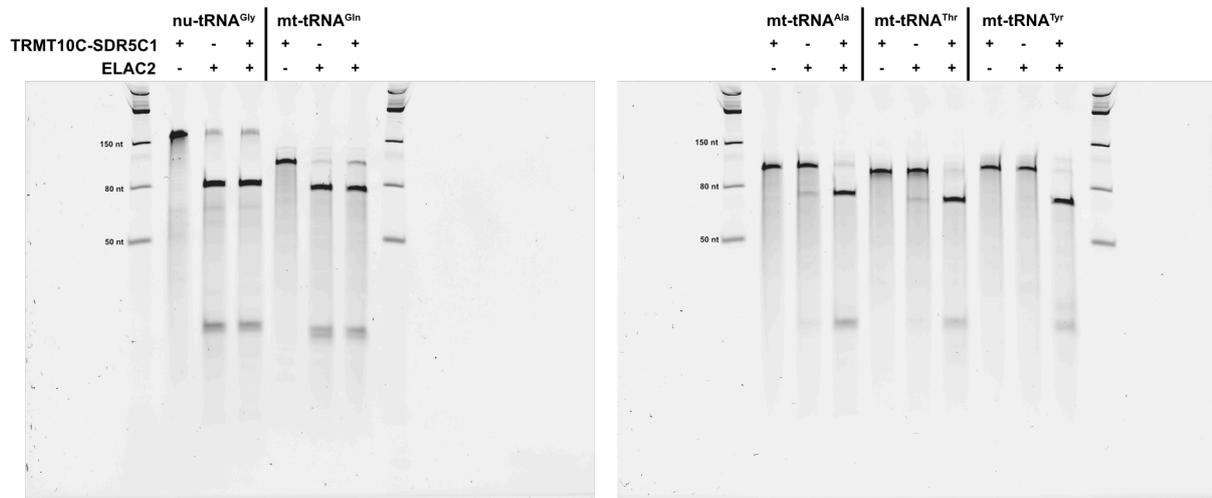
Region shown in Figure 1d is indicated by dashed box



Replicate 1



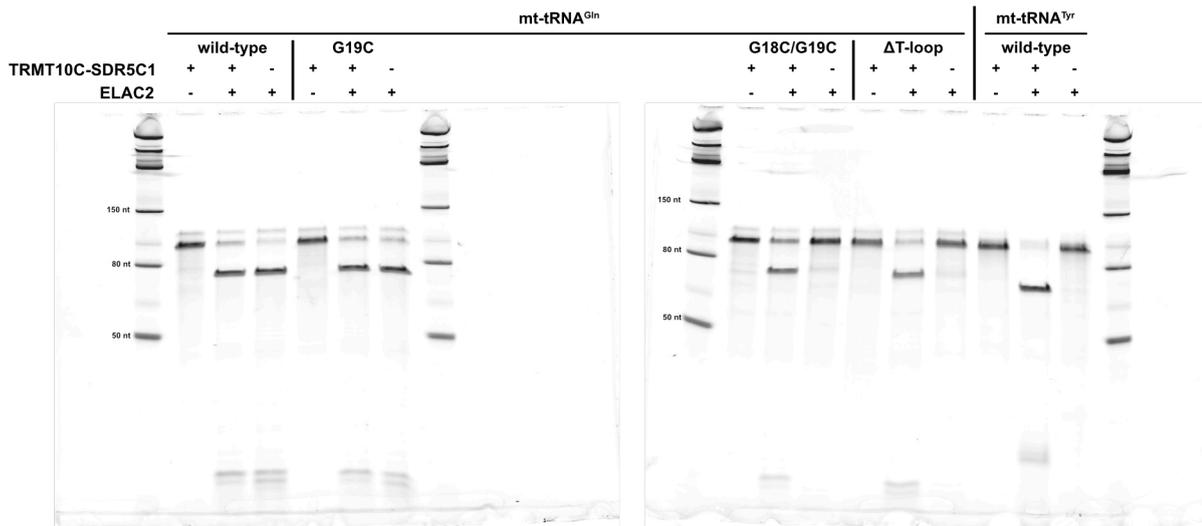
Replicate 2



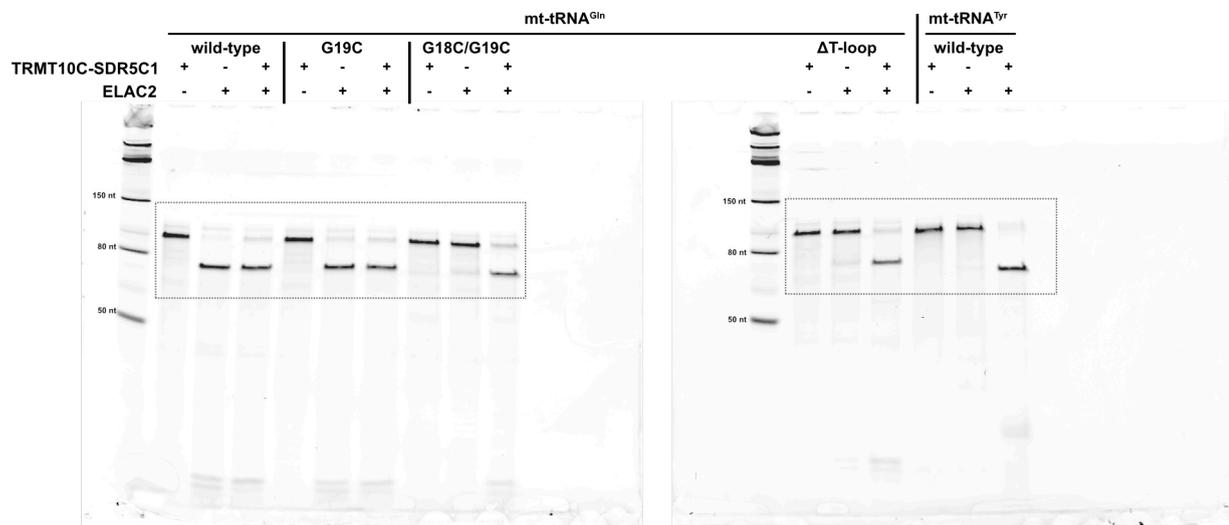
Replicate 3

Figure 1e

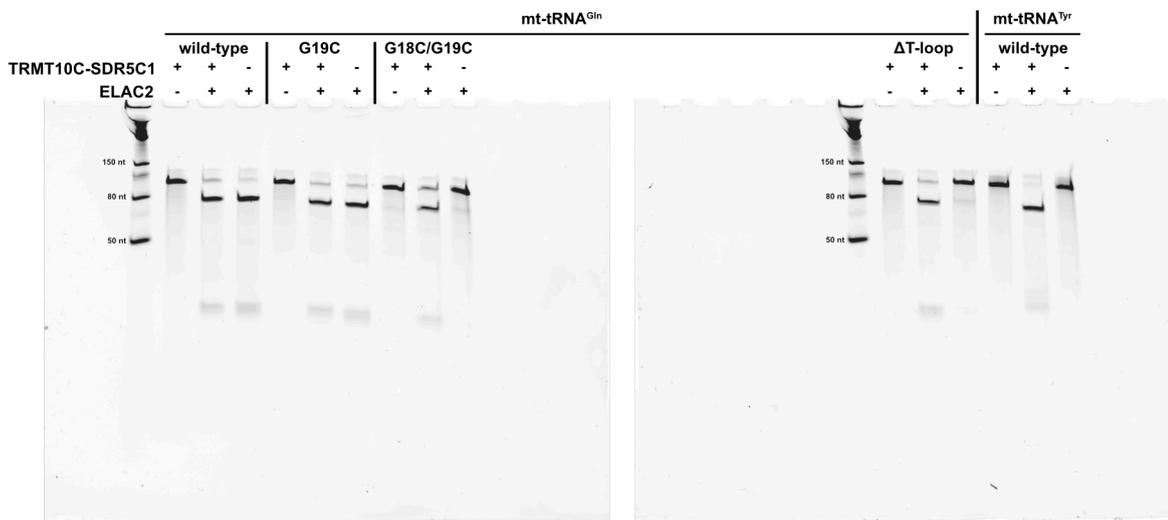
Region shown in Figure 1e is indicated by dashed box



Replicate 1



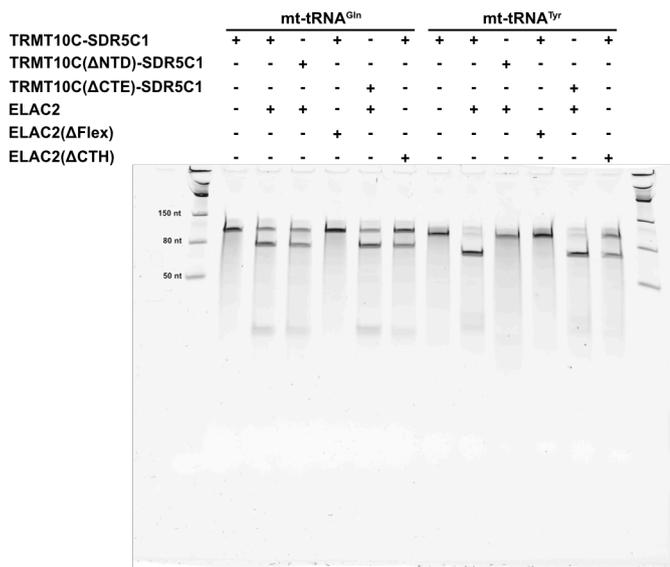
Replicate 2



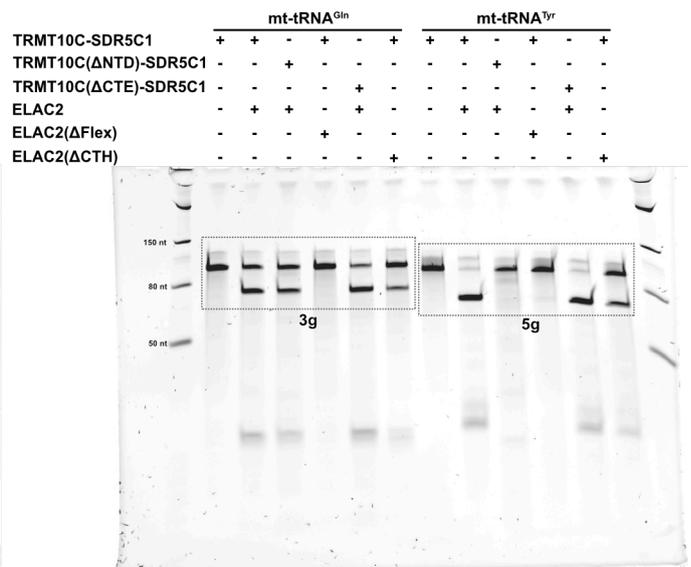
Replicate 3

Figure 3g and 5g

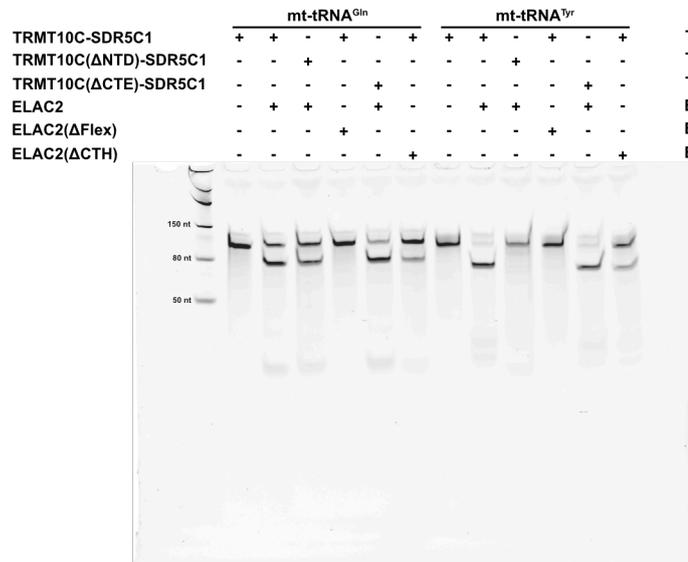
Regions shown in Figures 3g and 5g are indicated by dashed boxes



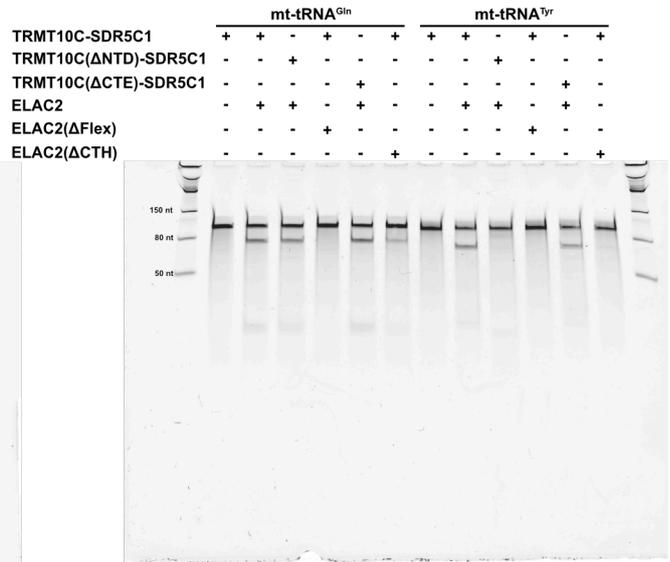
Replicate 1



Replicate 2



Replicate 3

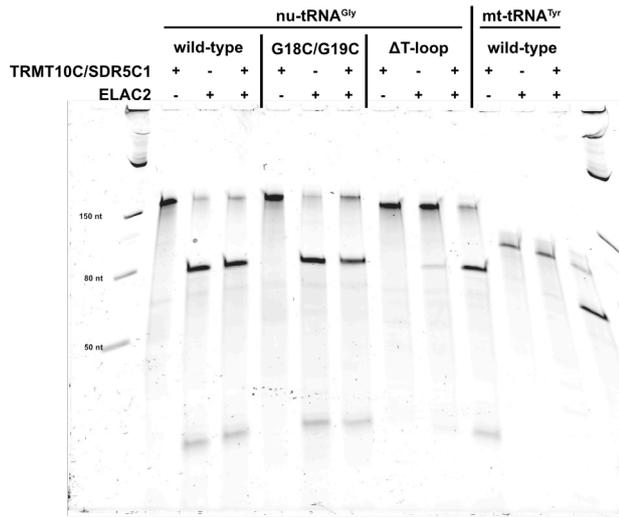


* Incubation for 30 min at room temperature instead of 30°C

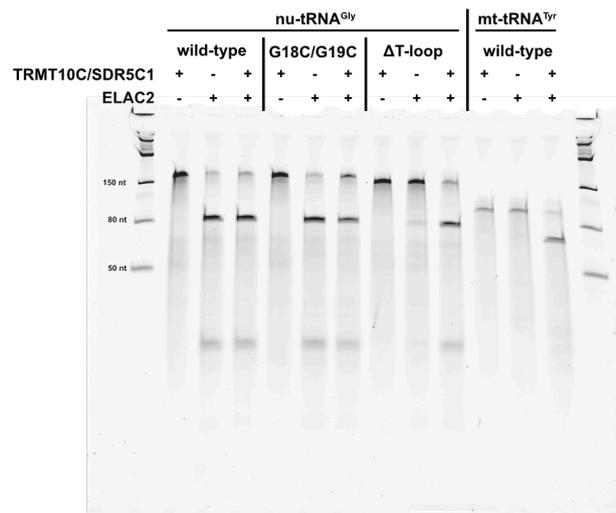
Replicate 4

Figure 4c

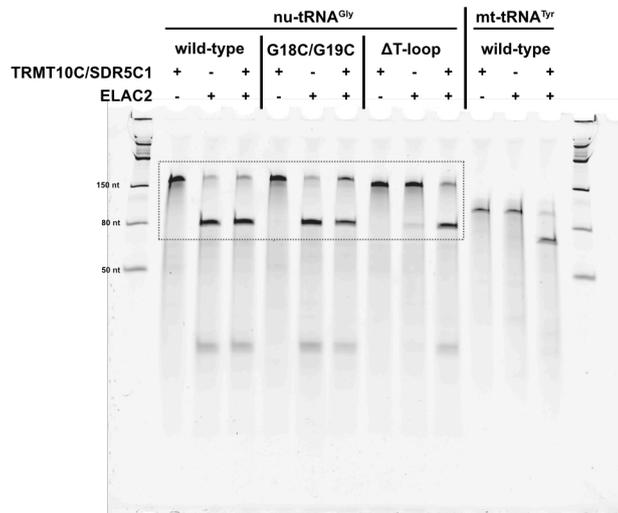
Region shown in Figure 4c is indicated by dashed boxes



Replicate 1



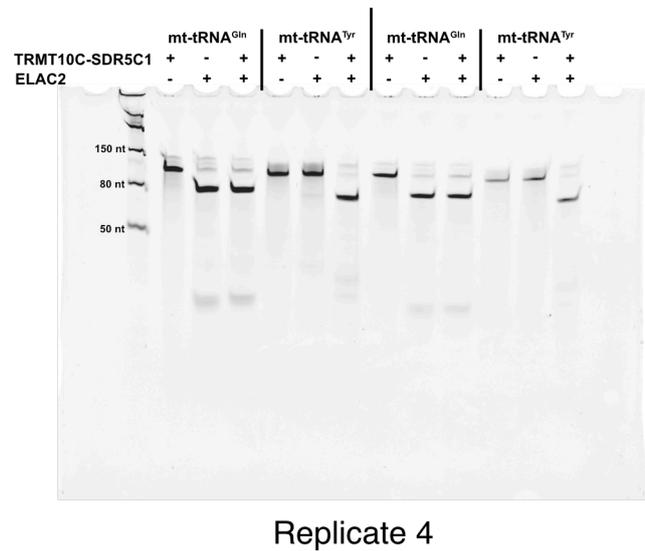
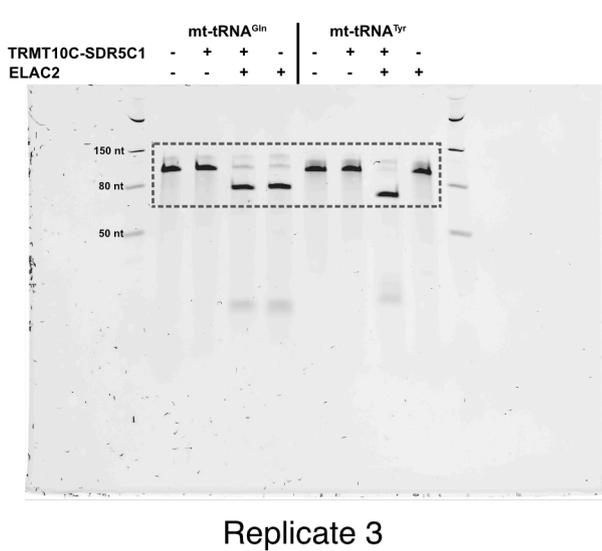
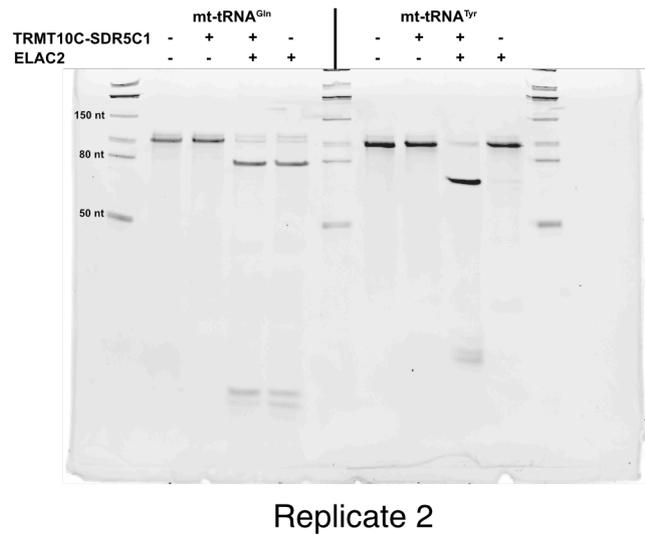
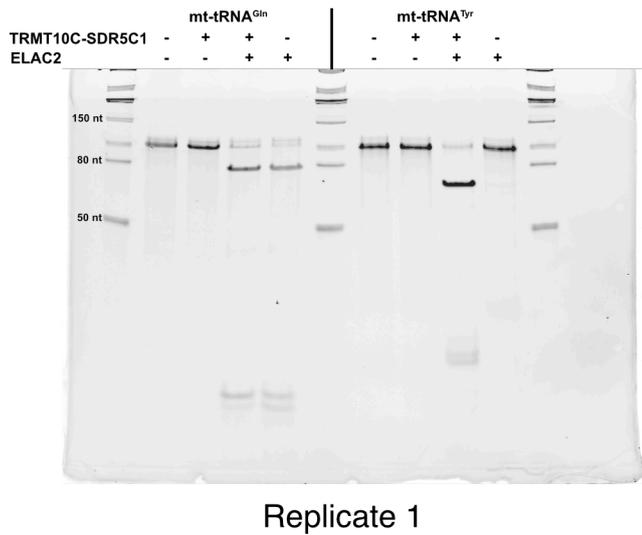
Replicate 2



Replicate 3

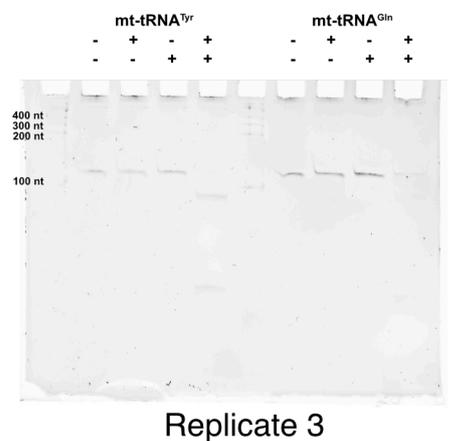
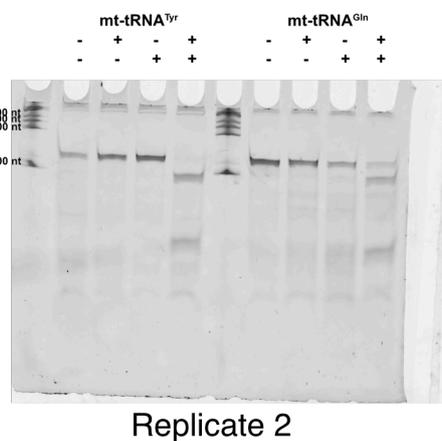
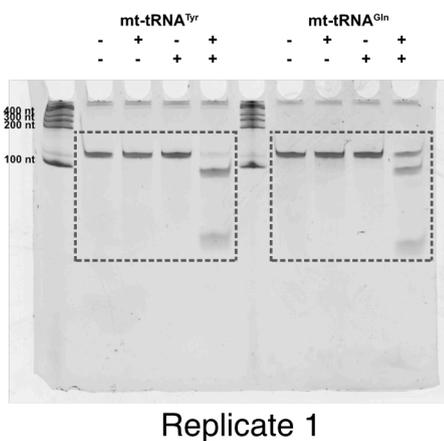
Extended Data Figure 1b

Region shown in ED-Figure 1b is indicated by dashed box



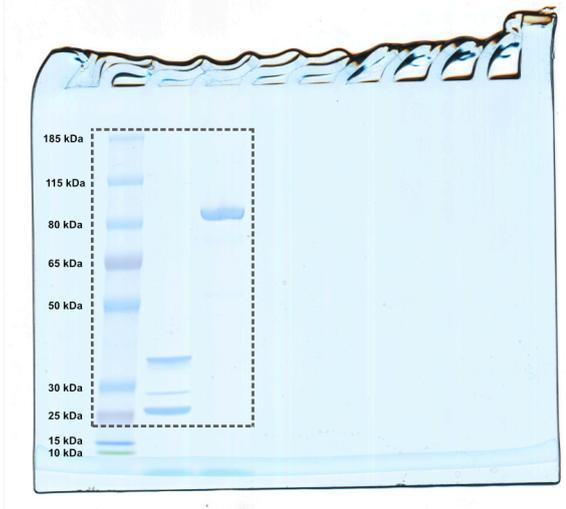
Extended Data Figure 1d

Regions shown in ED-Figure 1d is indicated by dashed box



Extended Data Figure 2a

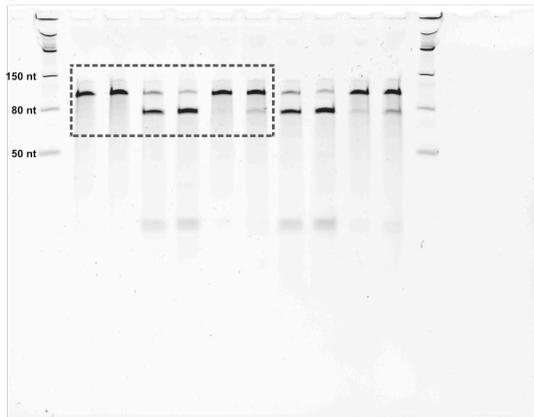
Region shown in ED-Figure 2a is indicated by dashed box



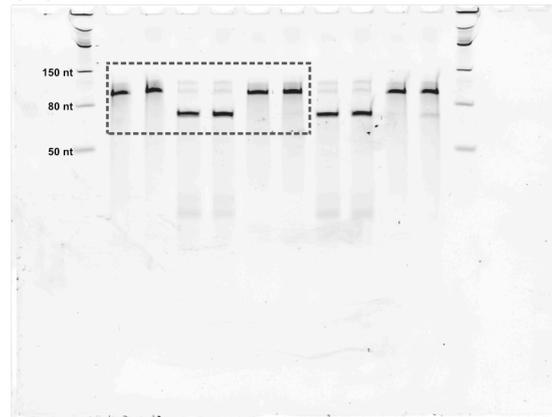
Extended Data Figure 2b

Regions shown in ED-Figure 2b are indicated by dashed boxes

	mt-tRNA ^{ala}											
TRMT10C-SDR5C1	+	+	+	+	+	+	+	+	+	+	+	+
ELAC2(wt)	-	-	+	+	-	-	-	-	-	-	-	-
ELAC2(D550N)	-	-	-	-	+	+	-	-	-	-	-	-
ELAC2(S545A)	-	-	-	-	-	-	+	+	-	-	-	-
ELAC2(H548A)	-	-	-	-	-	-	-	-	+	+	-	-
Time [min]	20	120	20	120	20	120	20	120	20	120	20	120

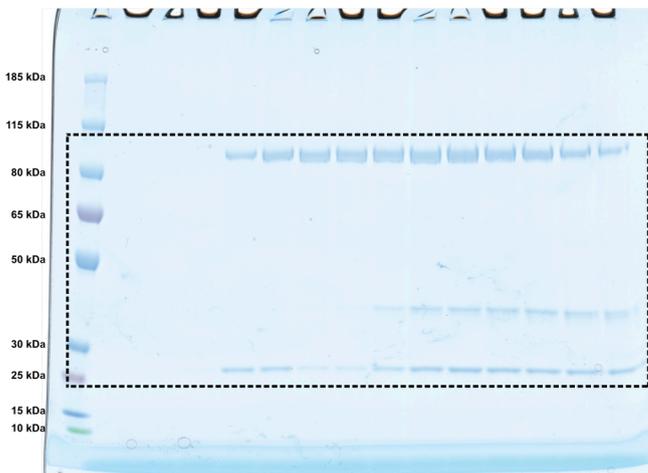


	mt-tRNA ^{trp}											
TRMT10C-SDR5C1	+	+	+	+	+	+	+	+	+	+	+	+
ELAC2(wt)	-	-	+	+	-	-	-	-	-	-	-	-
ELAC2(D550N)	-	-	-	-	+	+	-	-	-	-	-	-
ELAC2(S545A)	-	-	-	-	-	-	+	+	-	-	-	-
ELAC2(H548A)	-	-	-	-	-	-	-	-	+	+	-	-
Time [min]	20	120	20	120	20	120	20	120	20	120	20	120



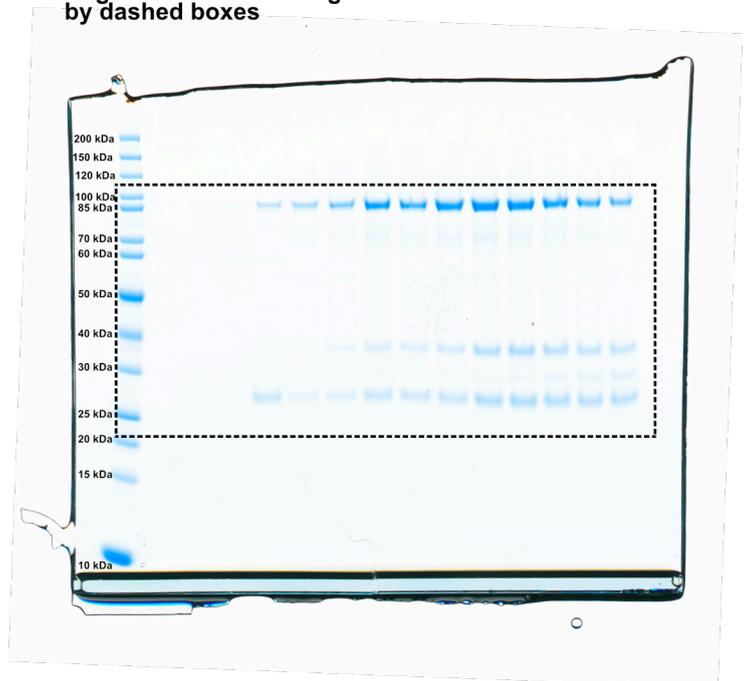
Extended Data Figure 2c

Region shown in ED-Figure 2c is indicated by dashed boxes



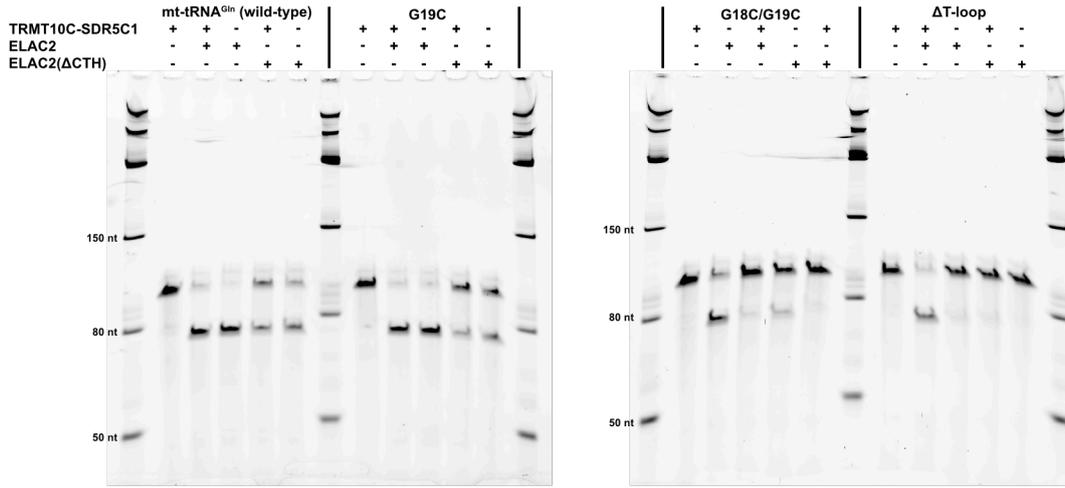
Extended Data Figure 2d

Region shown in ED-Figure 2d is indicated by dashed boxes

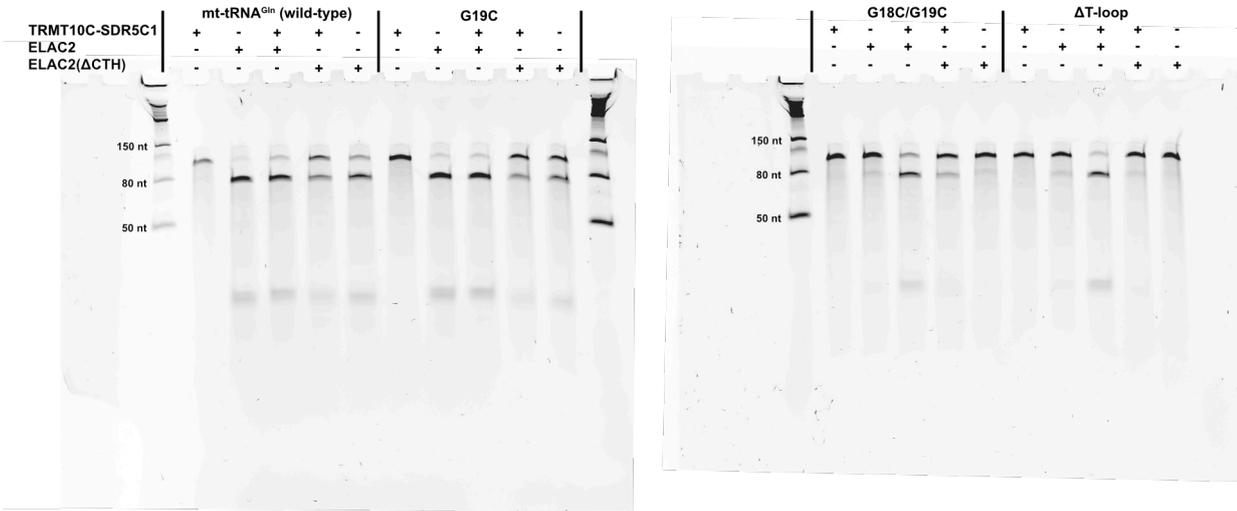


Extended Data Figure 7f

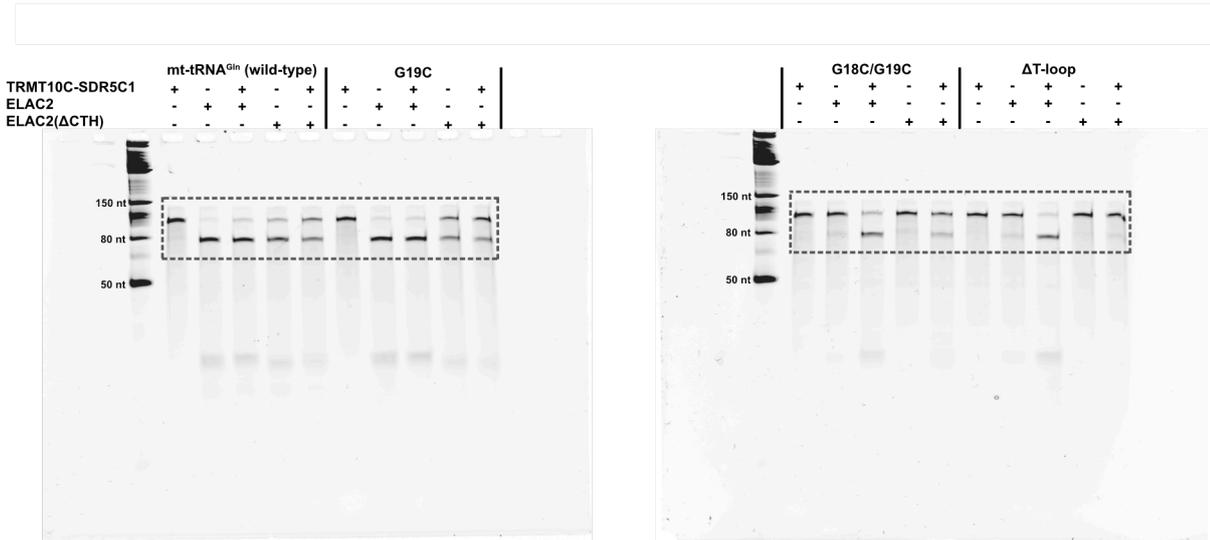
Regions shown in ED-Figure 7f are indicated by dashed boxes



Replicate 1



Replicate 2



Replicate 3

Extended Data Figure 9e

Region shown in ED-Figure 9e is indicated by dashed box

