
Supplementary information

DICER cleavage fidelity is governed by 5'-end binding pockets

In the format provided by the
authors and unedited

5'-end binding pockets govern DICER cleavage fidelity

Raw gel images data

Figure 1b

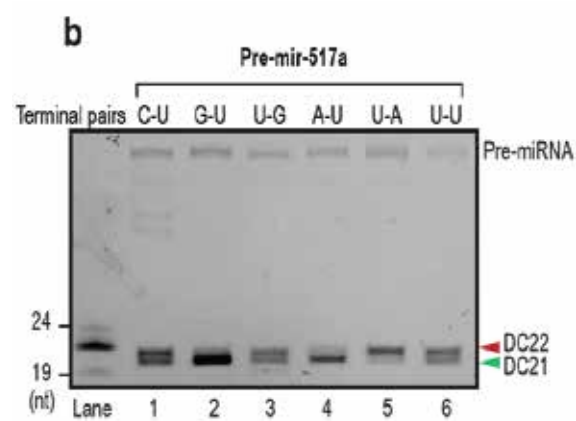
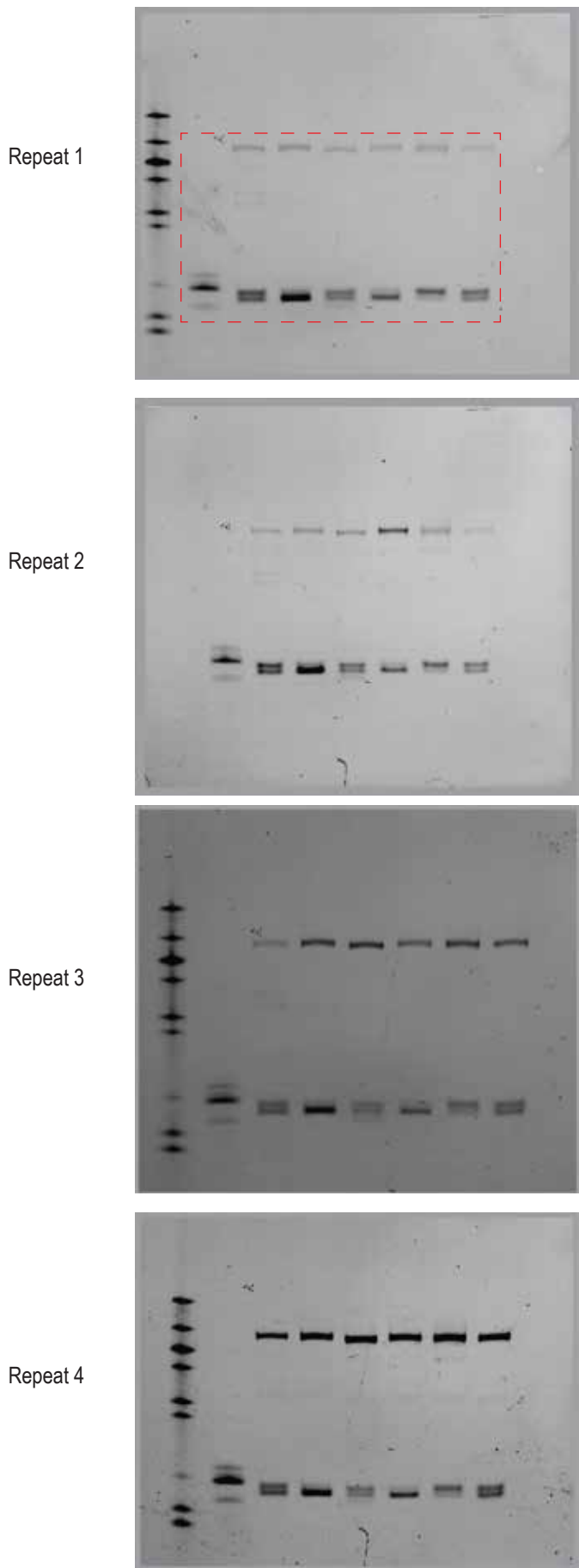


Figure 1e

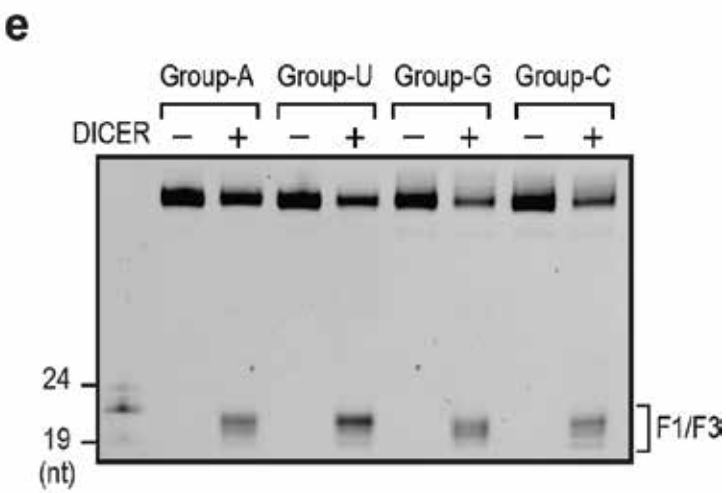
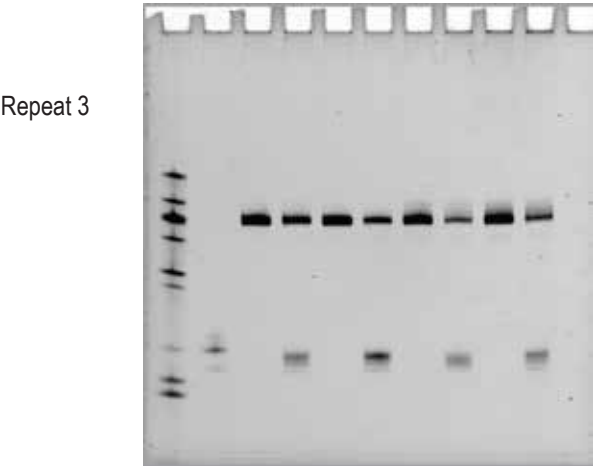
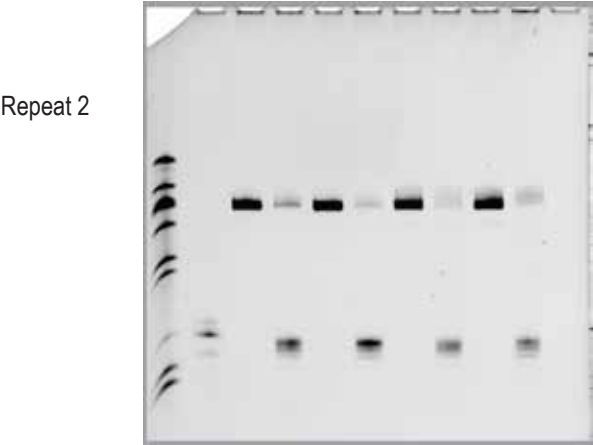
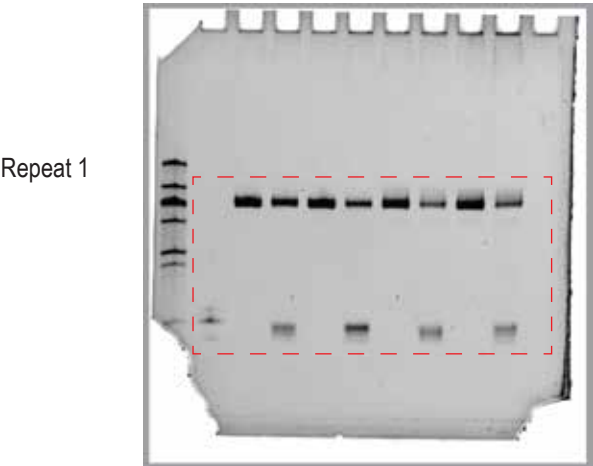


Figure 1i - pre-mir-629 assay

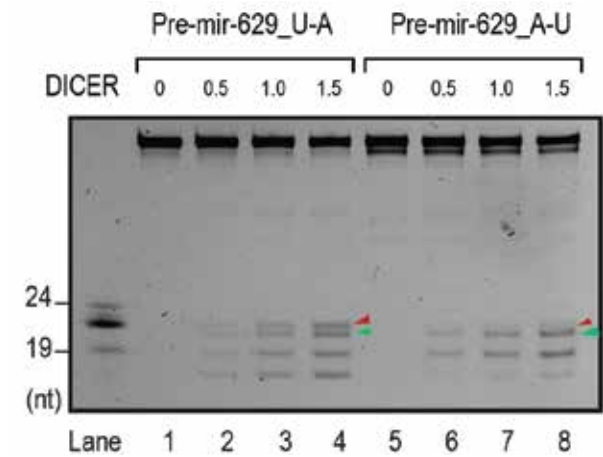
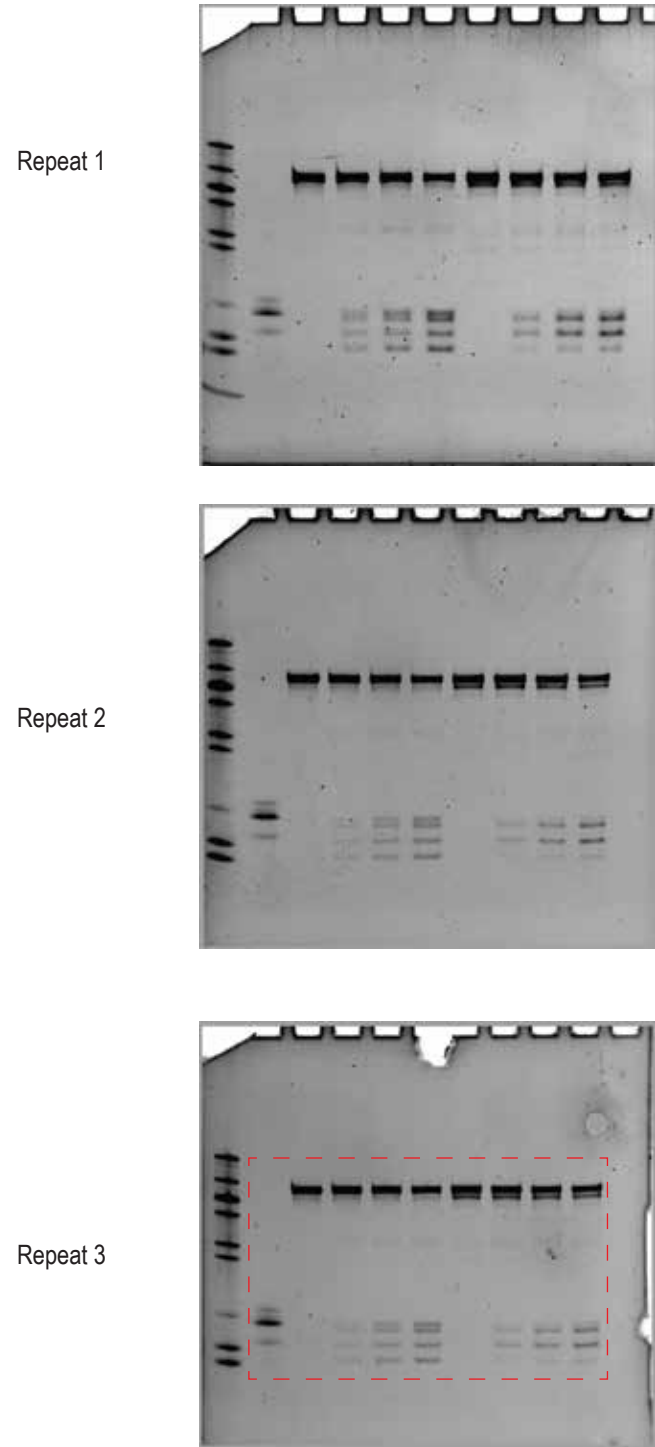
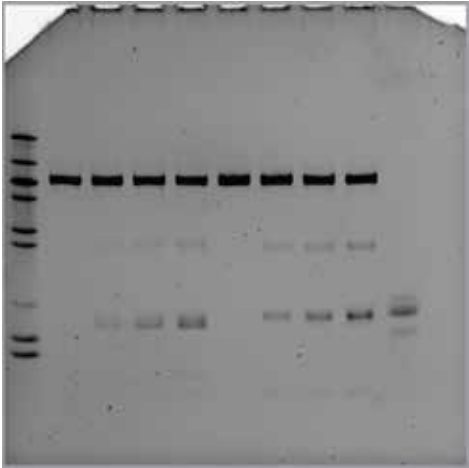
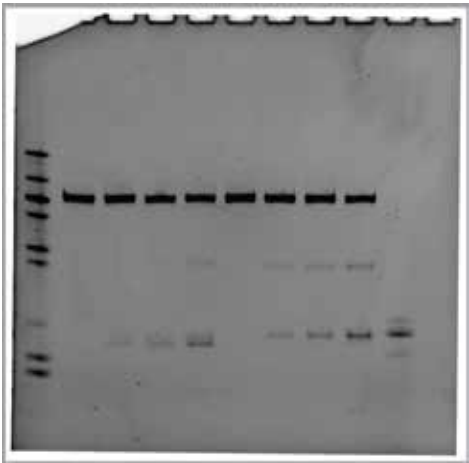


Figure 1i - pre-mir-208a assay

Repeat 1



Repeat 2



Repeat 3

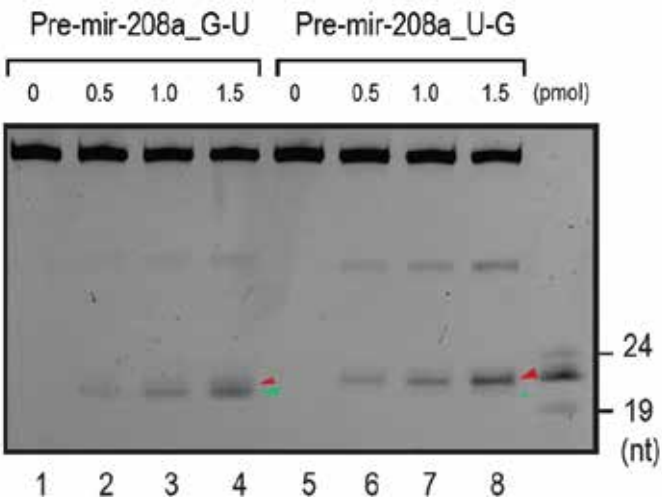
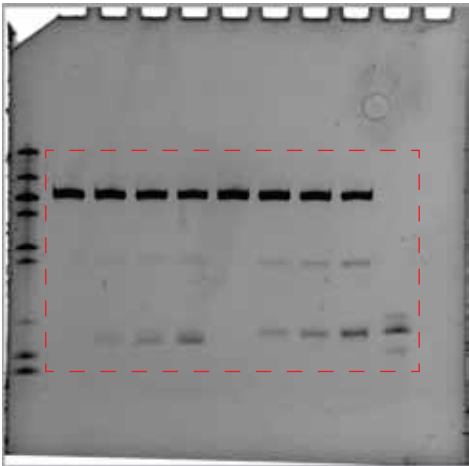
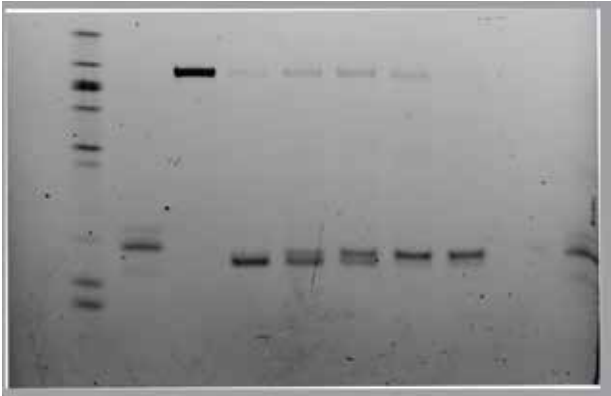


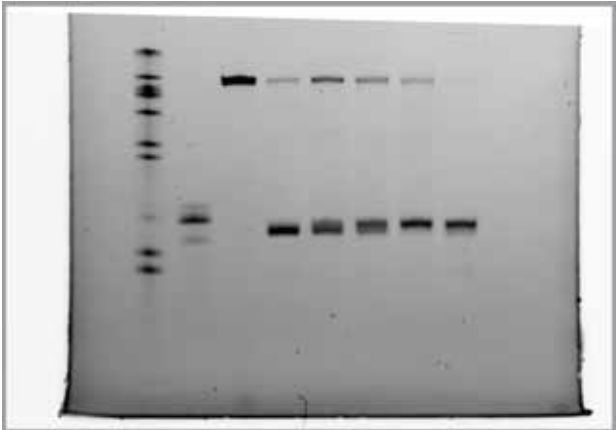
Figure 3d - pre-mir-517a assay

Pre-mir-517a-GU

Repeat 1



Repeat 2



Repeat 3

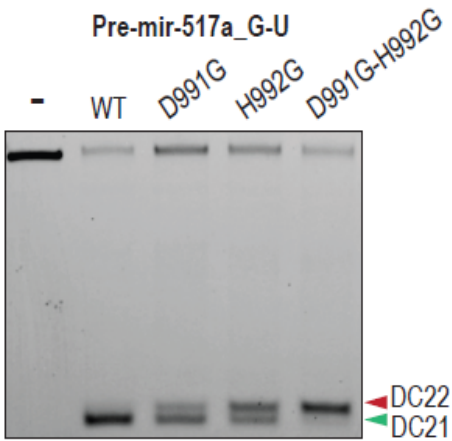
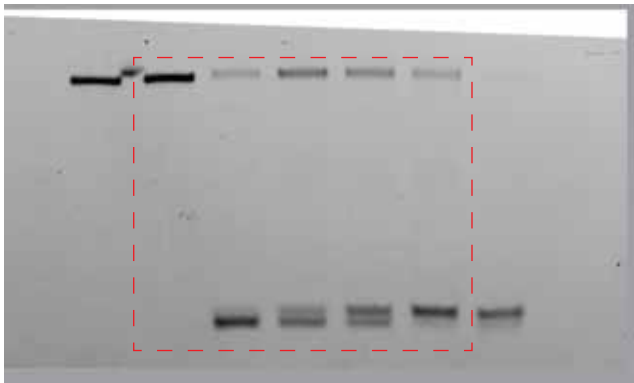
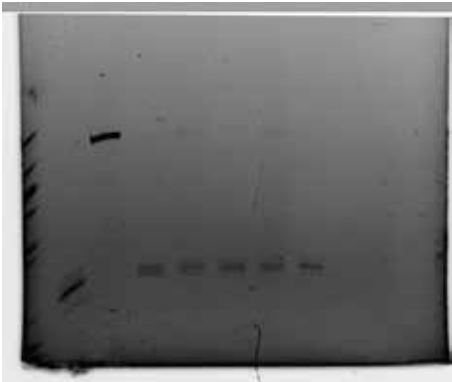


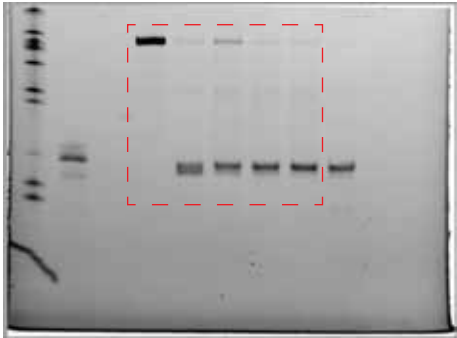
Figure 3e - pre-mir-517a assay

Pre-mir-517a-CU

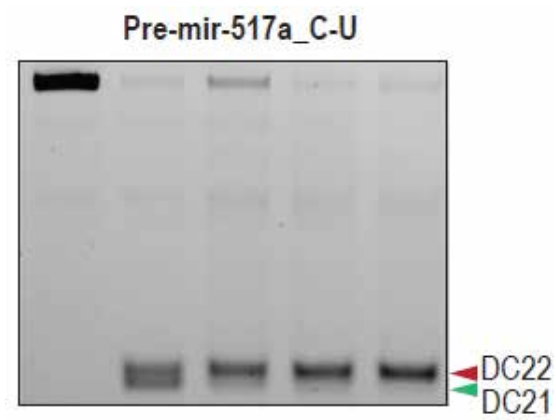
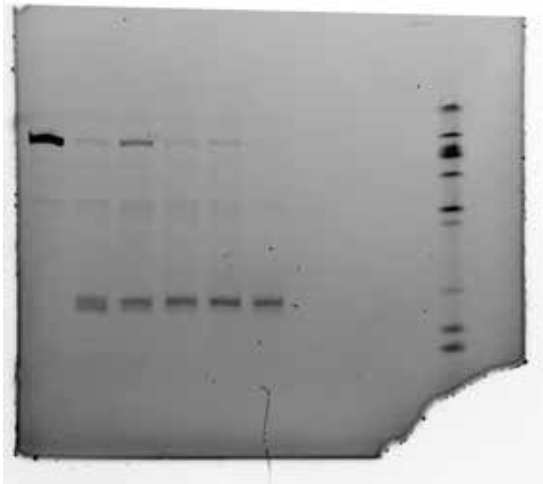
Repeat 1



Repeat 2

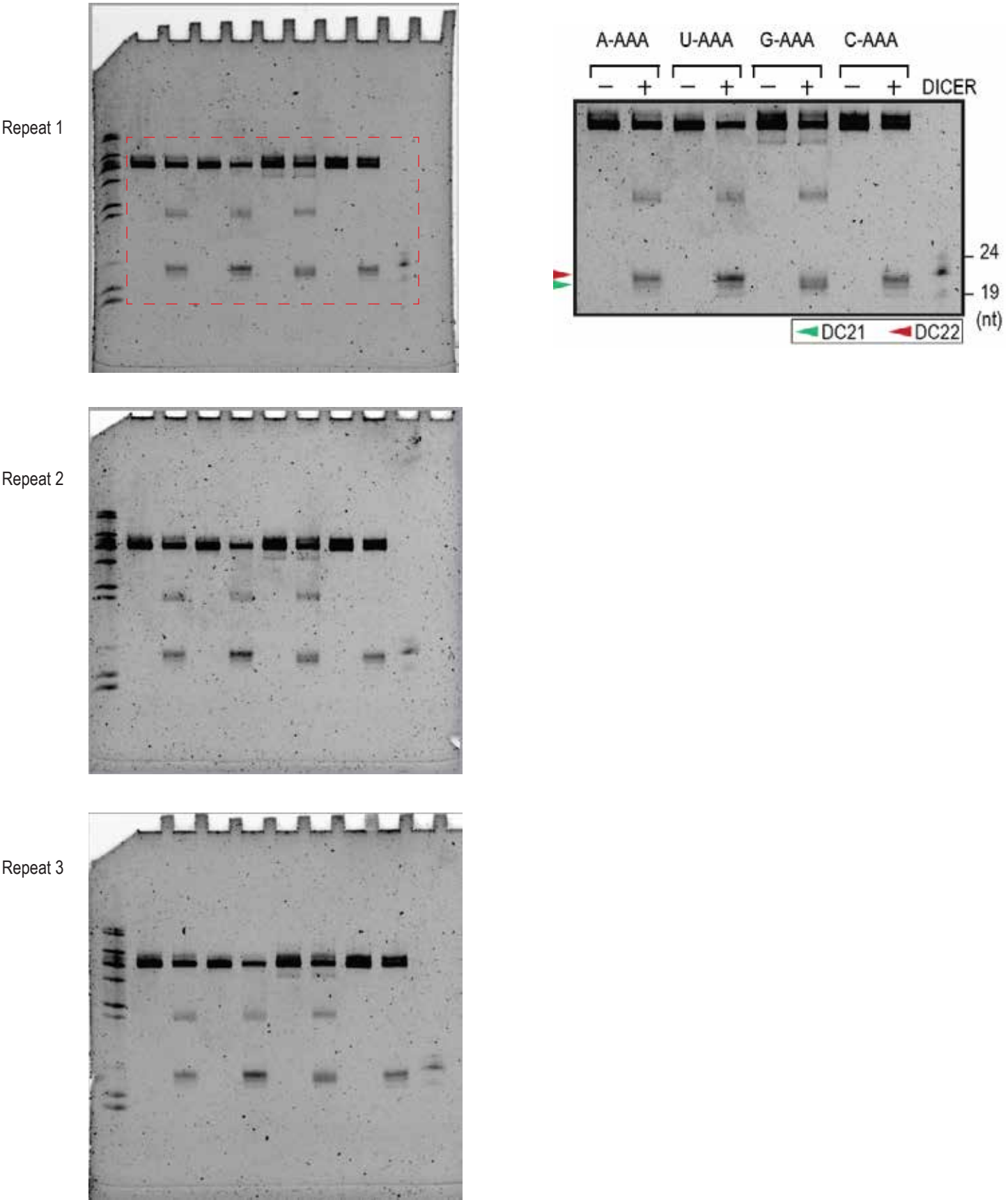


Repeat 3



Extended Data Figure 1g

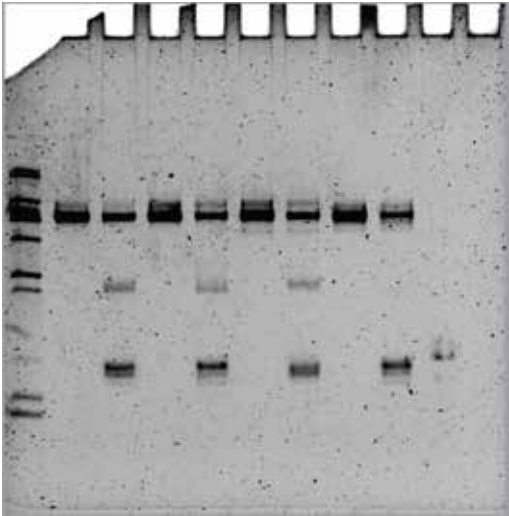
Pre-mir-324-variant: N-AAA



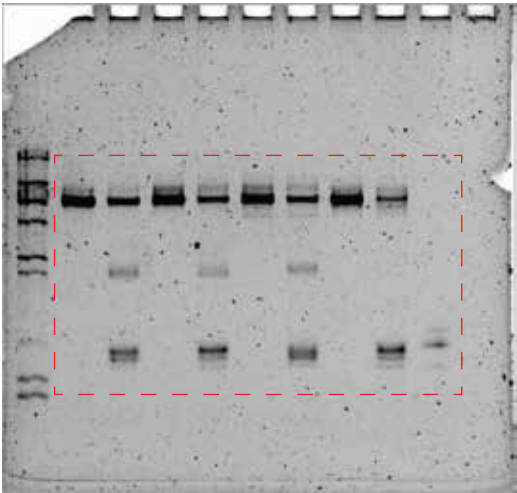
Extended Data Figure 1g

Pre-mir-324-variant: N-UAA

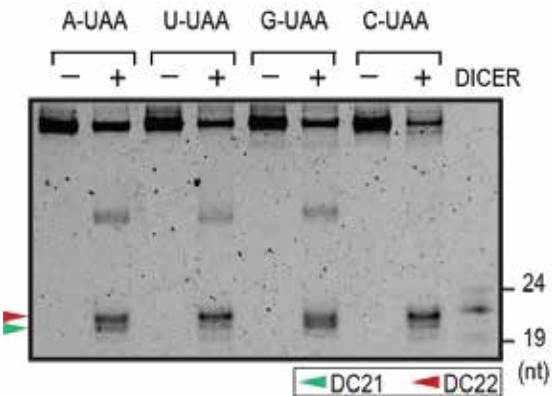
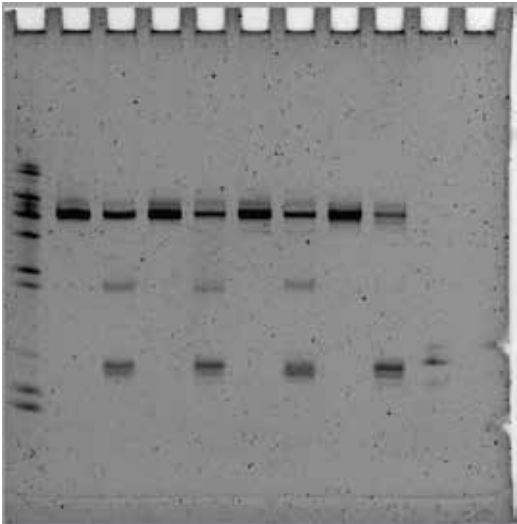
Repeat 1



Repeat 2



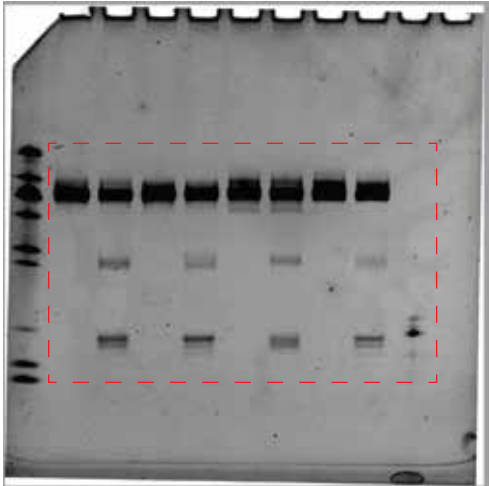
Repeat 3



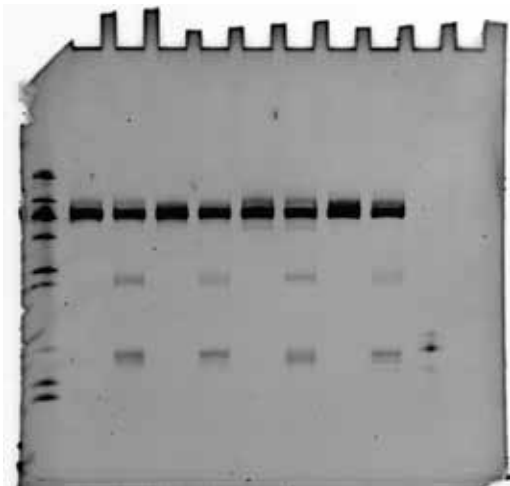
Extended Data Figure 1j

Pre-mir-324-variant: swapping AU-UA/GU-UG

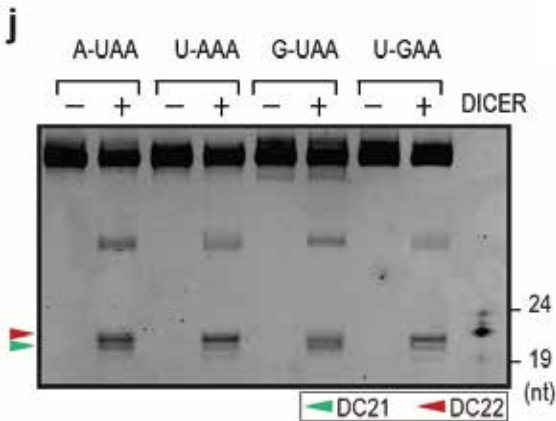
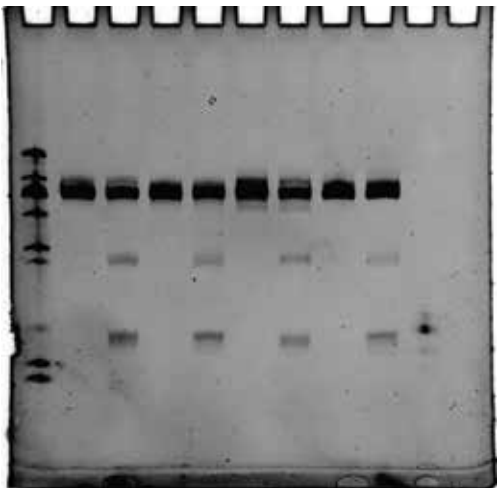
Repeat 1



Repeat 2



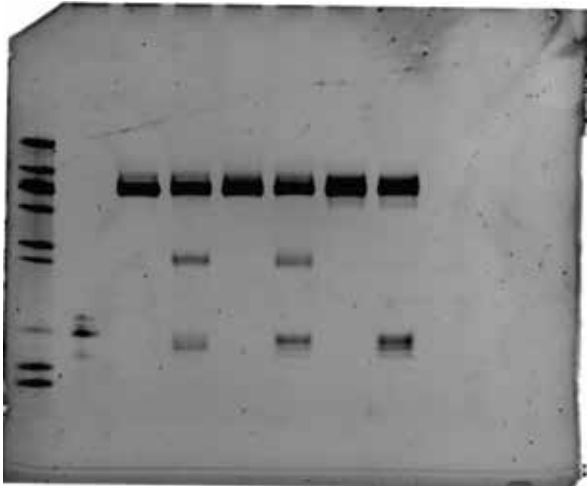
Repeat 3



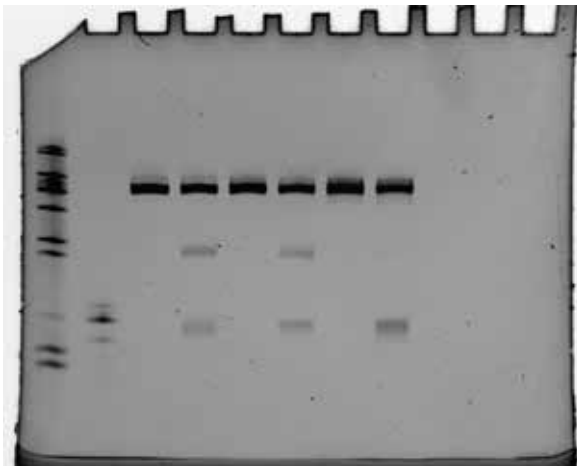
Extended Data Figure 1m

Pre-mir-324-variant: N-CAA in 1-3OVH structure

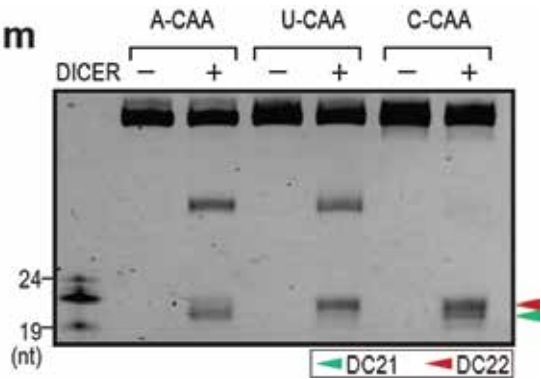
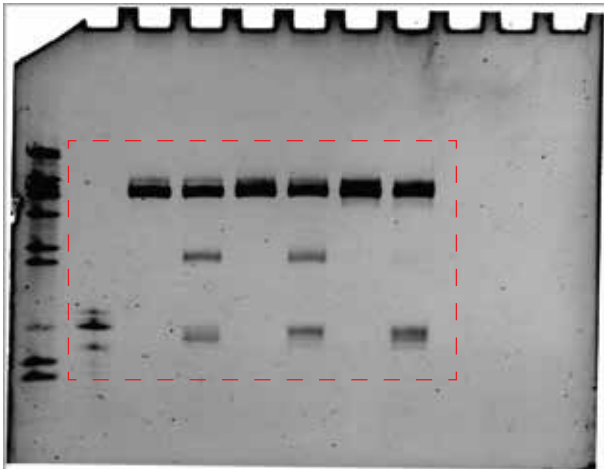
Repeat 1



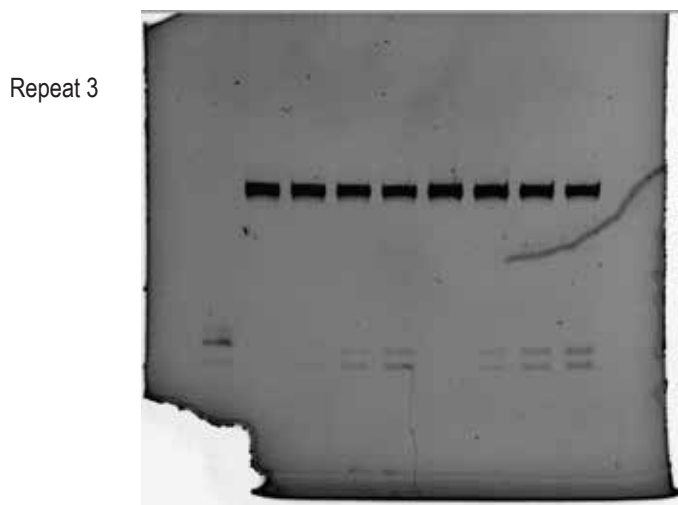
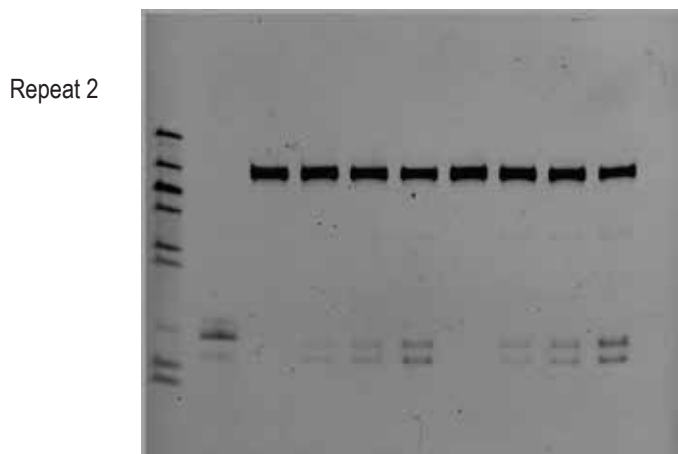
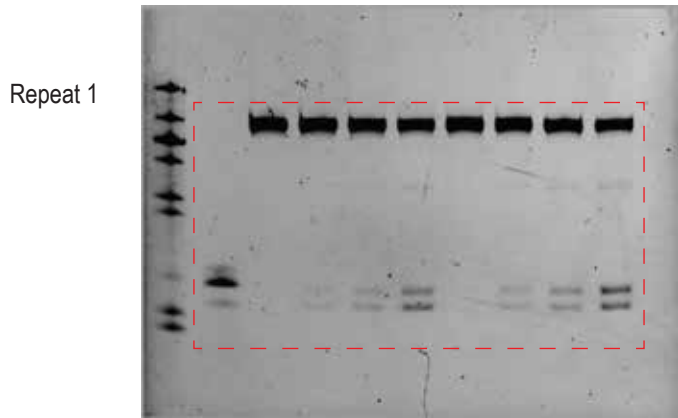
Repeat 2



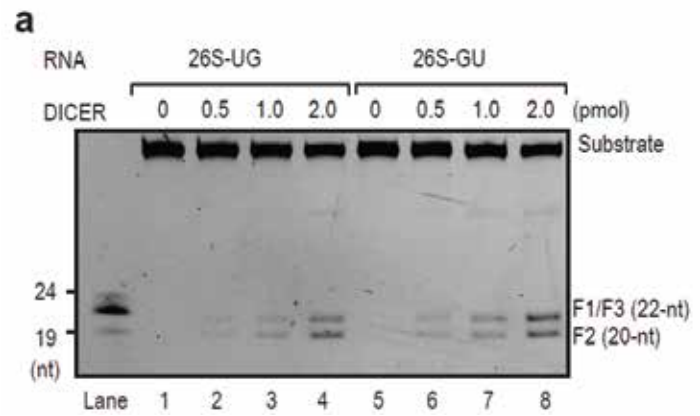
Repeat 3



Assay of 26S-GU and 26S-UG



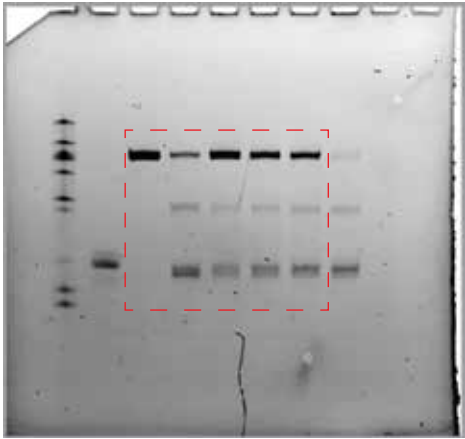
Extended Data Figure 4



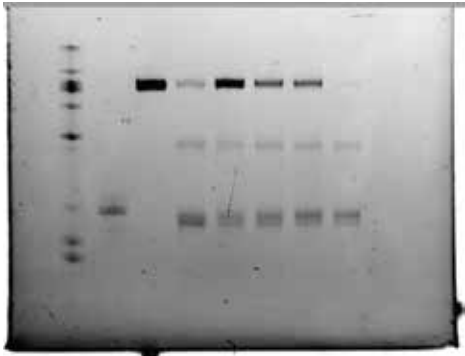
Extended Data Figure 4d - pre-mir-208a assay

Pre-mir-208a-GU

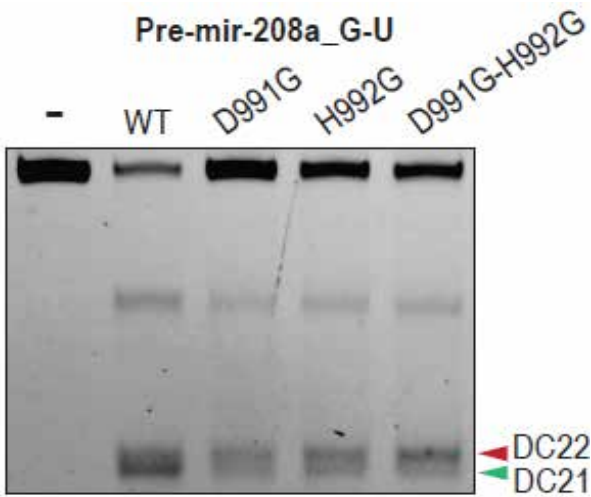
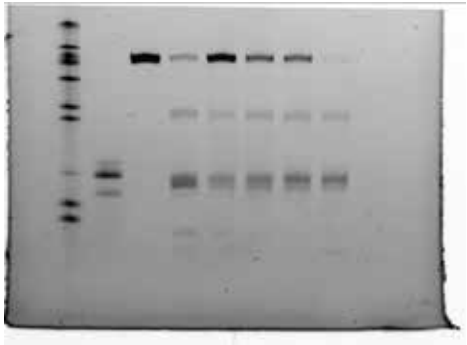
Repeat 1



Repeat 2



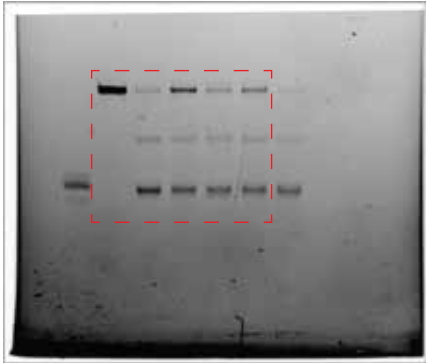
Repeat 3



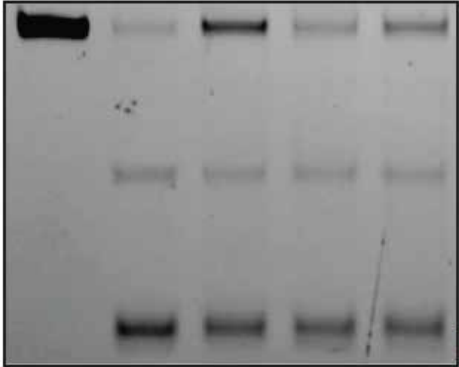
Extended Data Figure 4d - pre-mir-208a assay

Pre-mir-208a-UG

Repeat 1



Pre-mir-208a_U-G

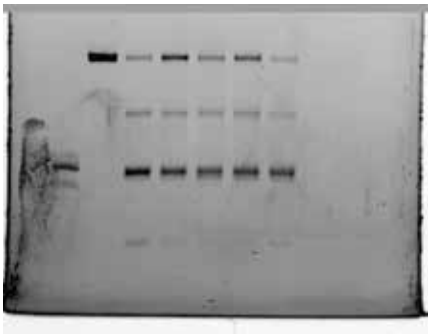


DC22
DC21

Repeat 2



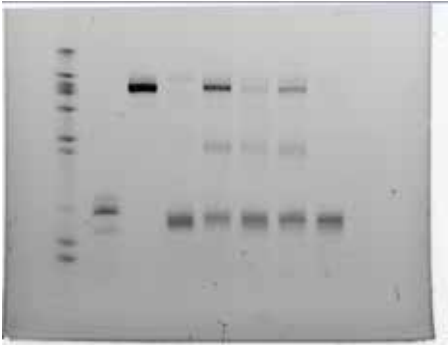
Repeat 3



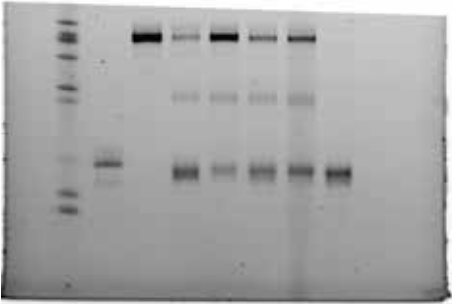
Extended Data Figure 4e - pre-mir-324 assay

Pre-mir-324-GU

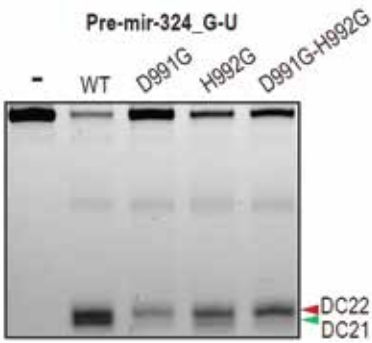
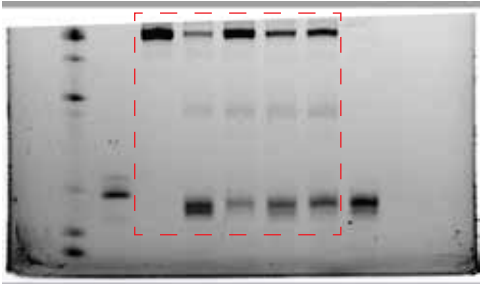
Repeat 1



Repeat 2



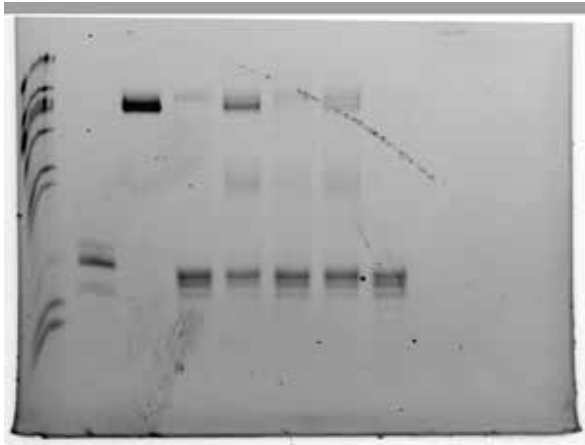
Repeat 3



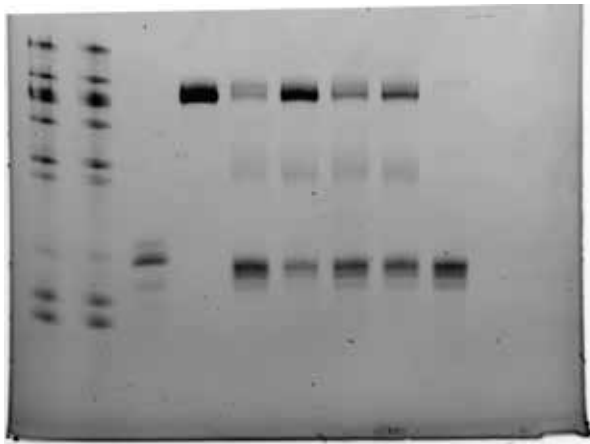
Extended Data Figure 4e - pre-mir-324 assay

Pre-mir-324-UG

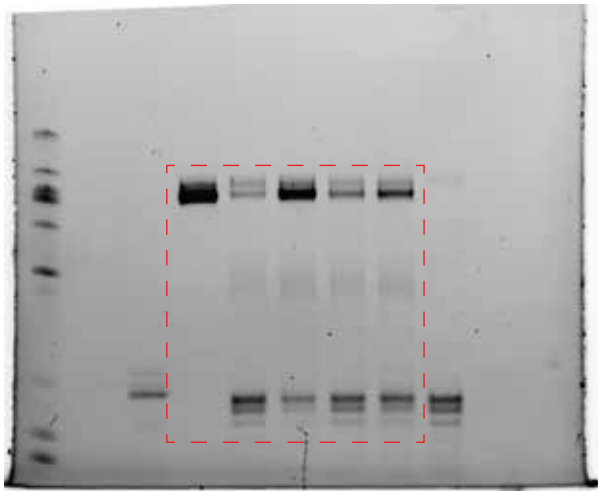
Repeat 1



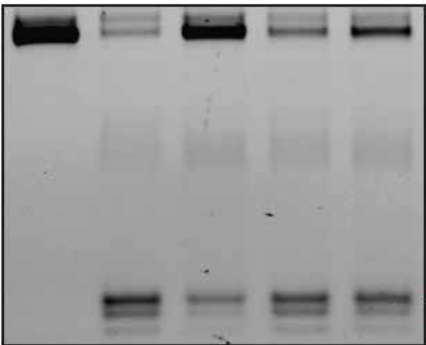
Repeat 2



Repeat 3



Pre-mir-324_U-G

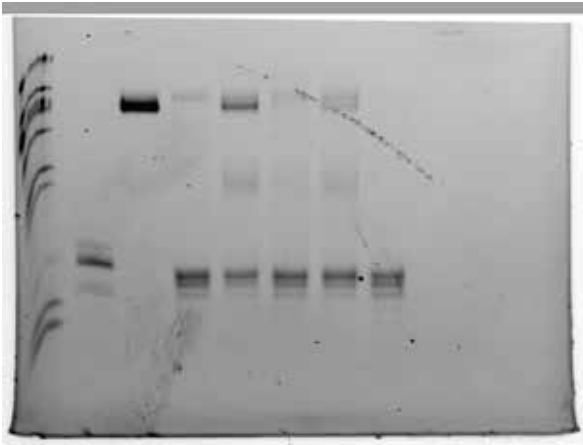


DC22
DC21

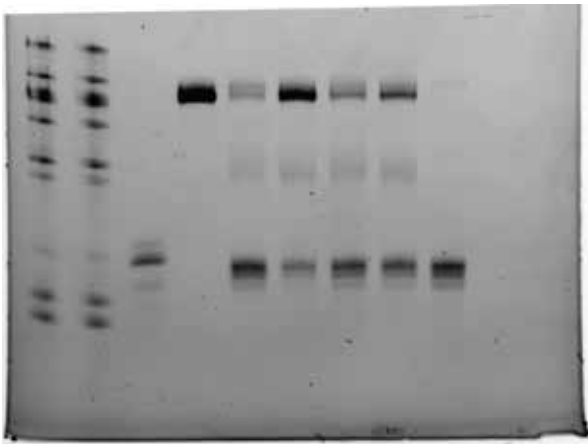
Extended Data Figure 4e - pre-mir-324 assay

Pre-mir-324-UG

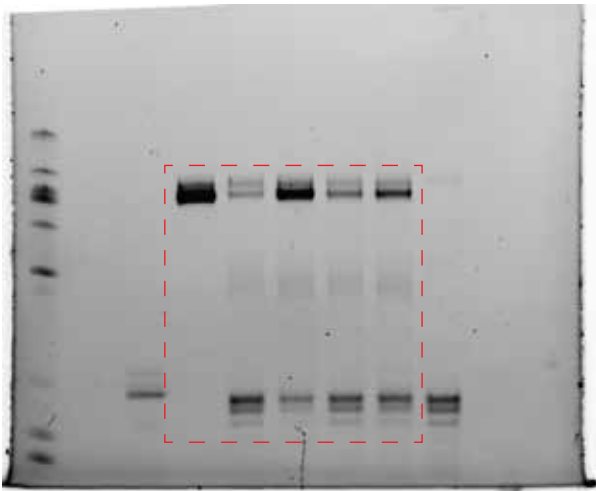
Repeat 1



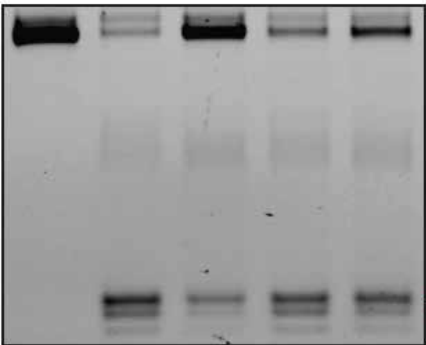
Repeat 2



Repeat 3



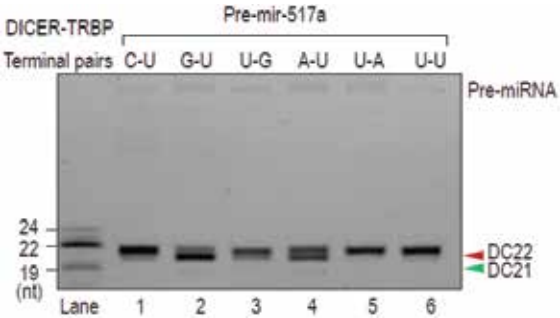
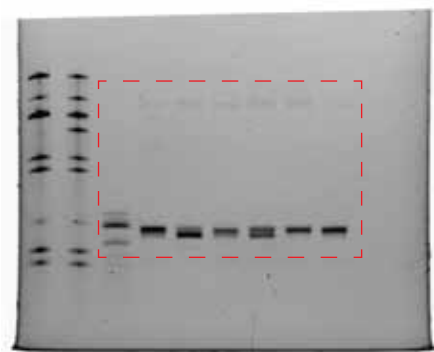
Pre-mir-324_U-G



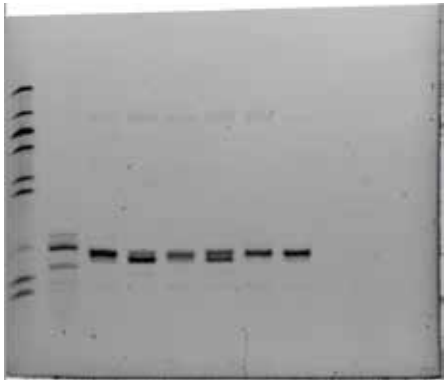
DC22
DC21

Extended Data Figure 4h - DICER-TRBP assay of pre-mir-517a

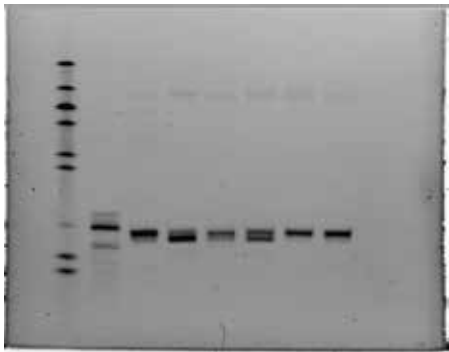
Repeat 1



Repeat 2

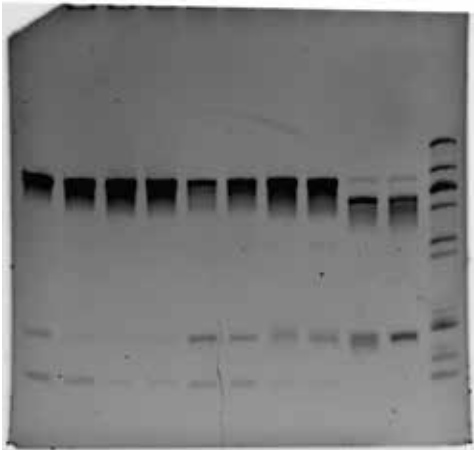


Repeat 3

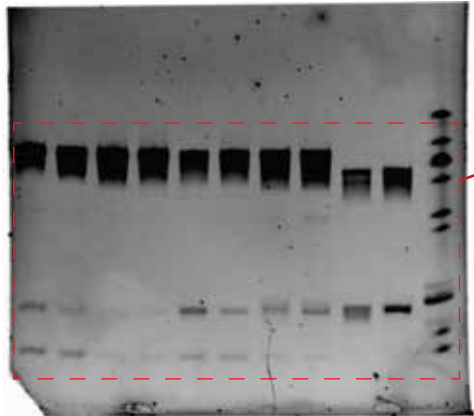


Extended Data Figure 10b - 26S variants with DICER-WT assay

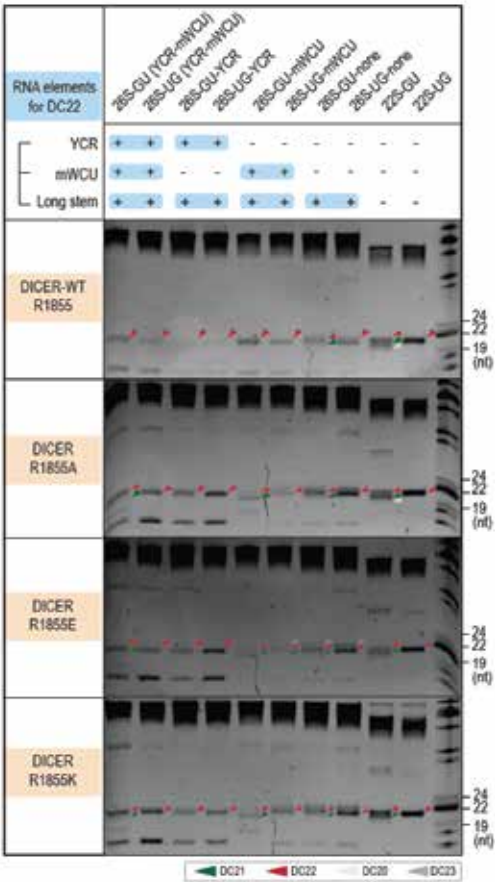
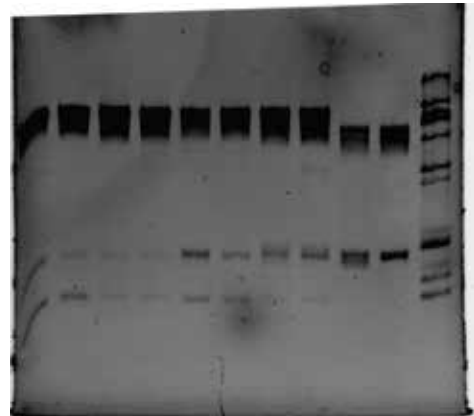
Repeat 1



Repeat 2

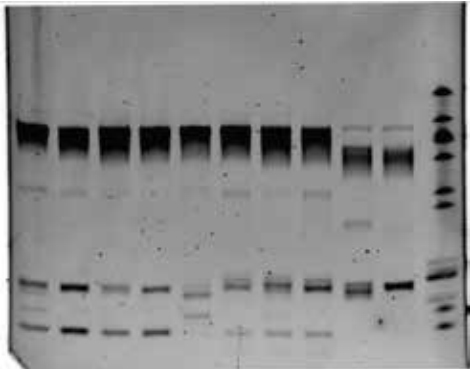


Repeat 3

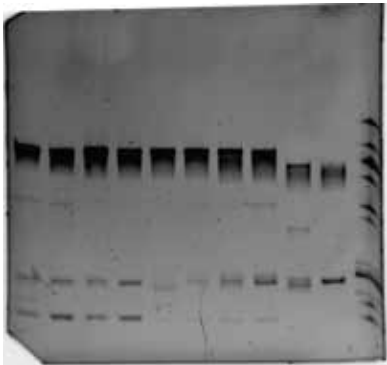


Extended Data Figure 10b - 26S variants with DICER-R1855A assay

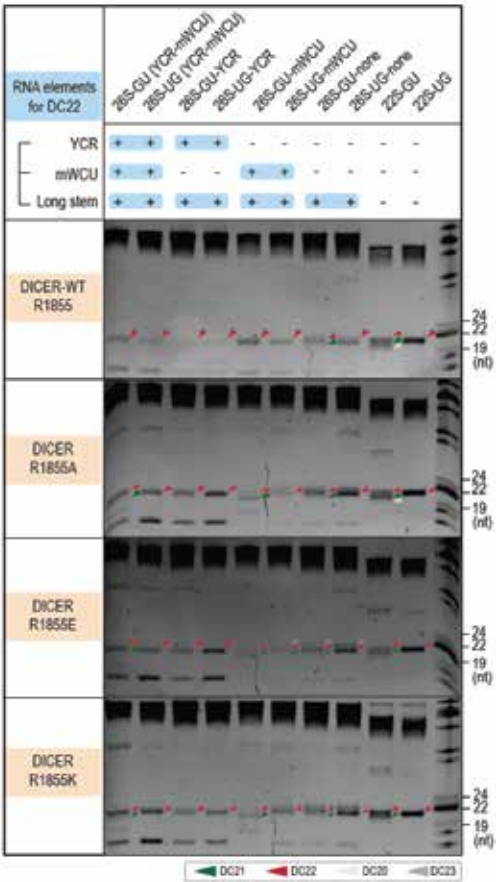
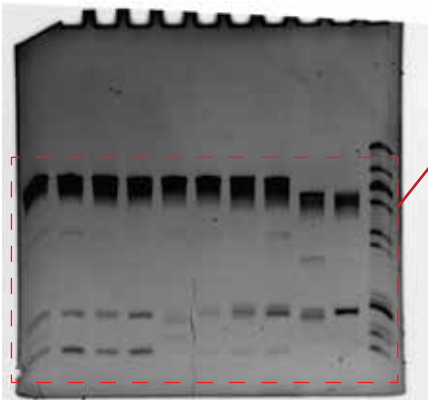
Repeat 1



Repeat 2

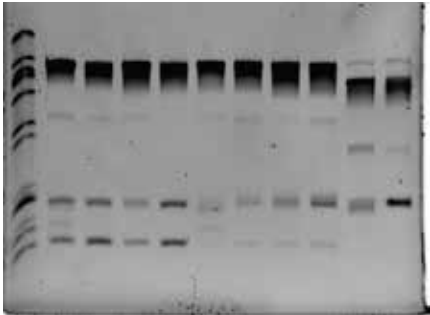


Repeat 3

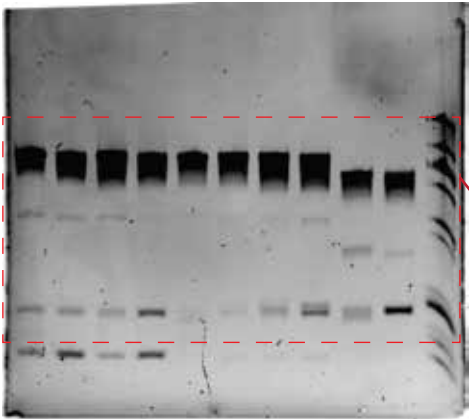


Extended Data Figure 10b - 26S variants with DICER-R1855E assay

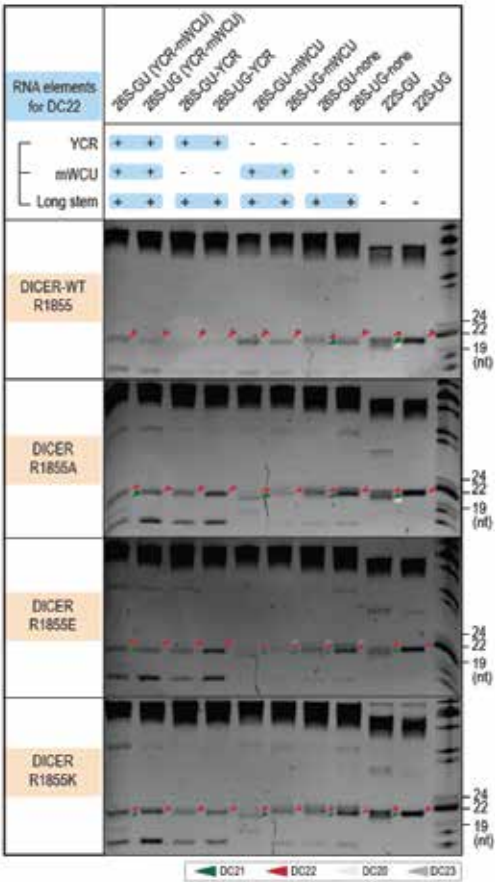
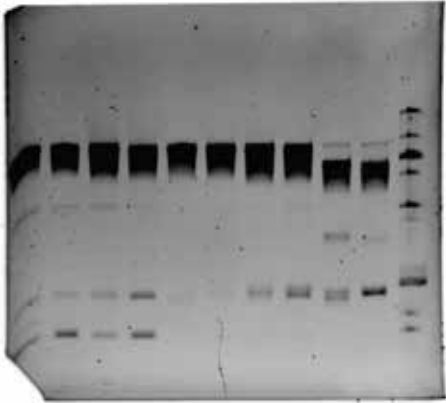
Repeat 1



Repeat 2

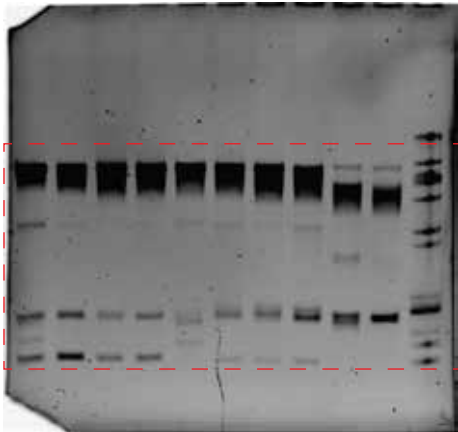


Repeat 3

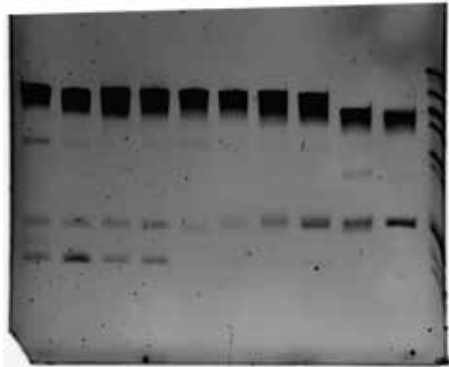


Extended Data Figure 10b - 26S variants with DICER-R1855K assay

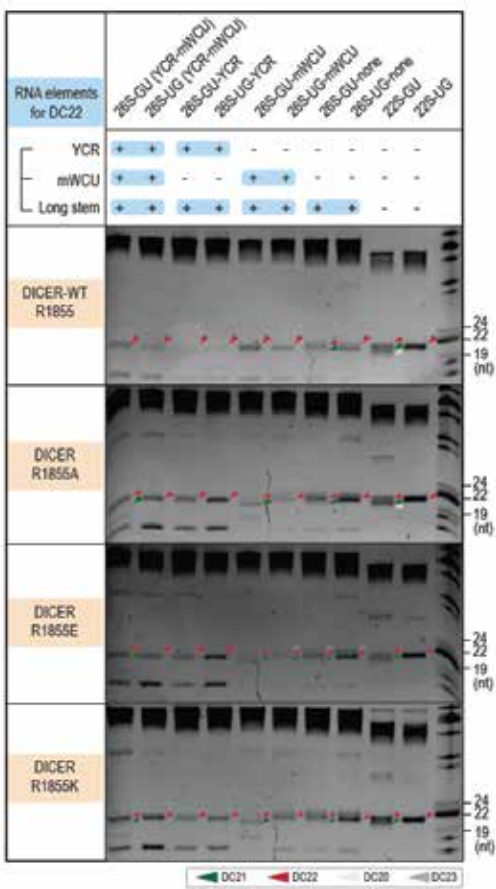
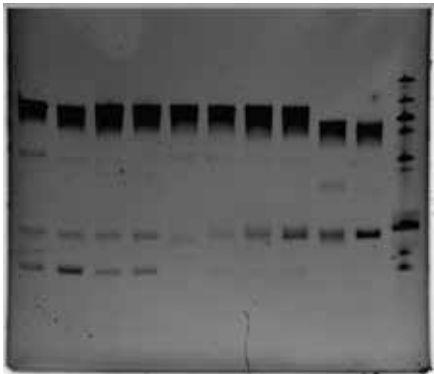
Repeat 1



Repeat 2

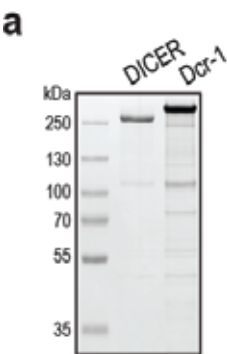
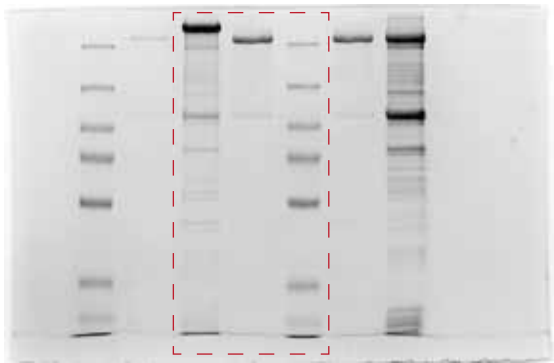


Repeat 3



Proteins on SDS-PAGE gel

Extended Data Figure 1a. DICER and Dcr-1



Extended Data Figure 4a. DICER mutants used in mutagenesis experiment

