
Supplementary information

***N*¹-methylpseudouridylation of mRNA causes +1 ribosomal frameshifting**

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Supplementary Information

(N)1-methylpseudouridylation of mRNA causes +1 ribosomal frameshifting

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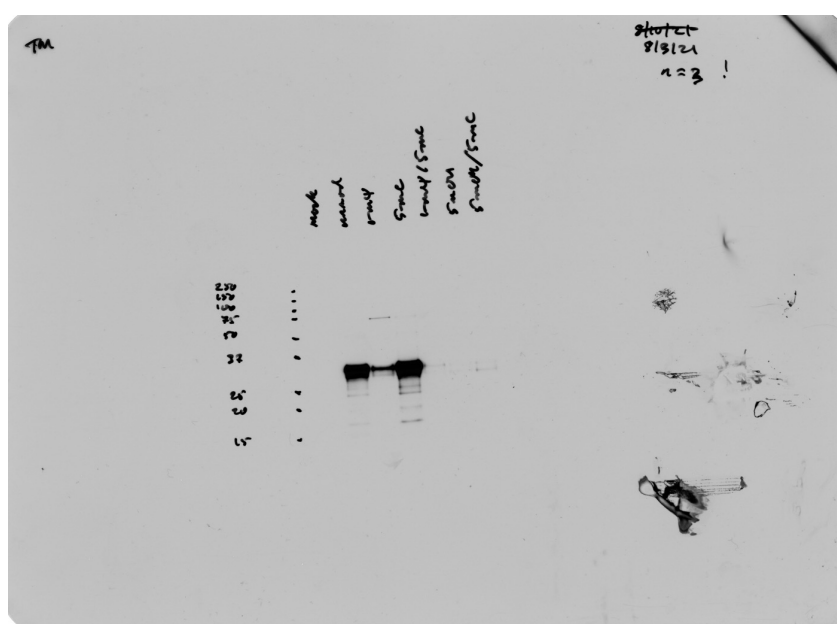
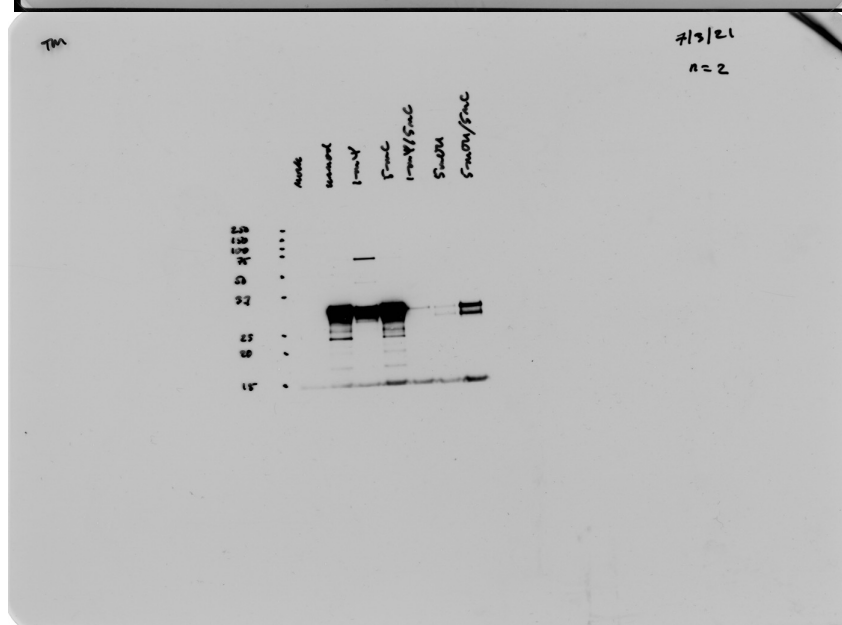
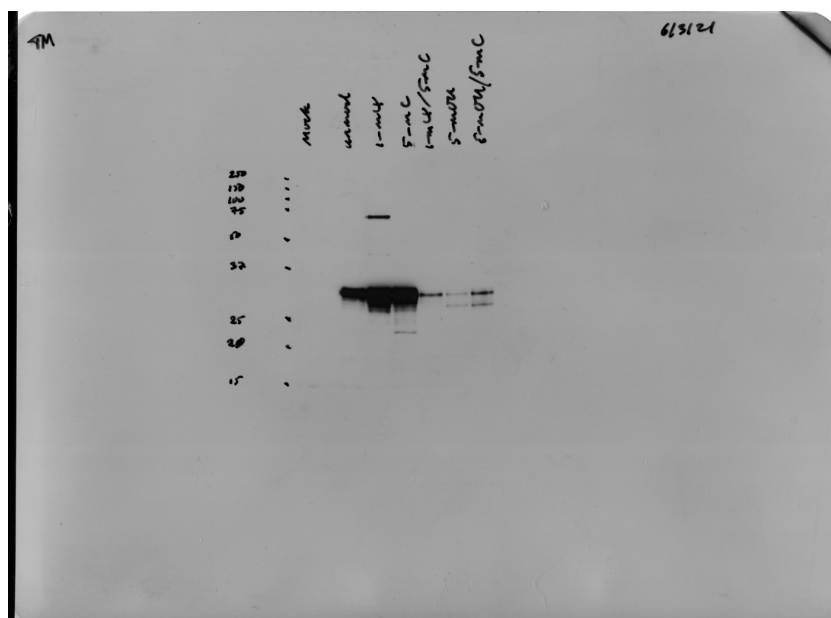
Supplementary Table 1: Participant age, sex, HLA genotype, vaccine modality, and ELISpot +1FS spike response.

[illegible][illegible]

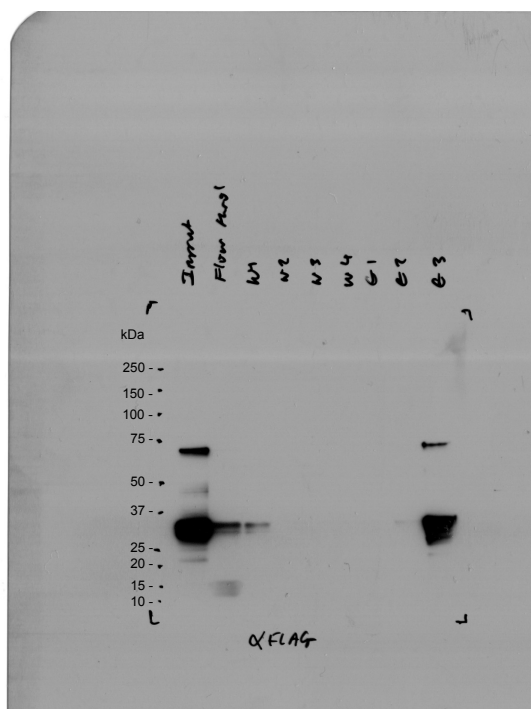
[illegible][illegible]

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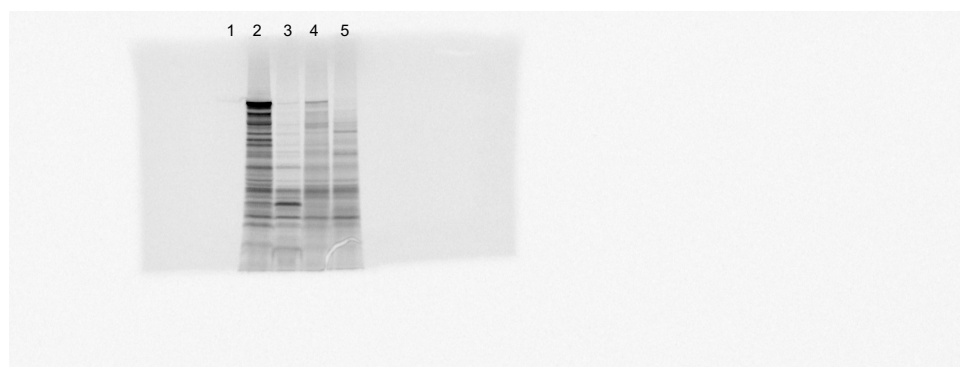
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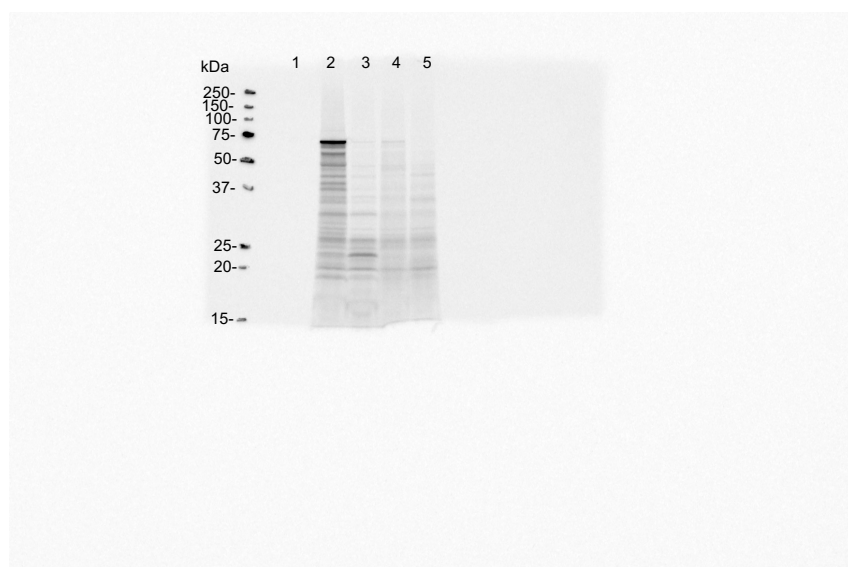
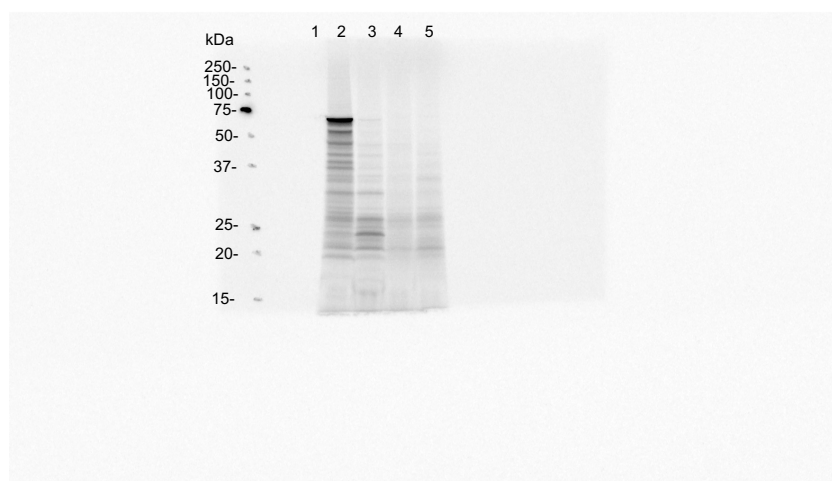
Supplementary Fig. 2: Uncropped films for western blot displayed in Figure 1e



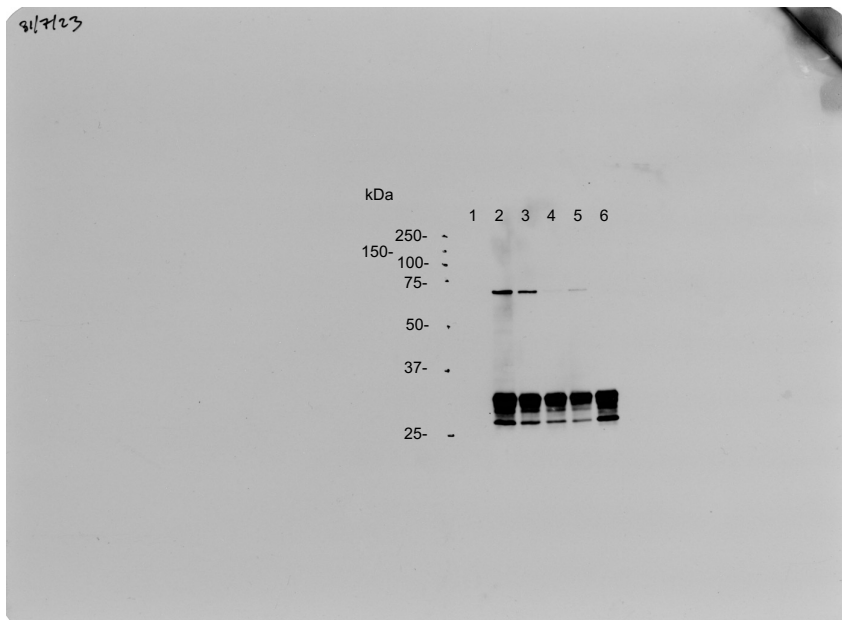
Supplementary Fig 3. Uncropped film for western blot displayed in Fig 3a



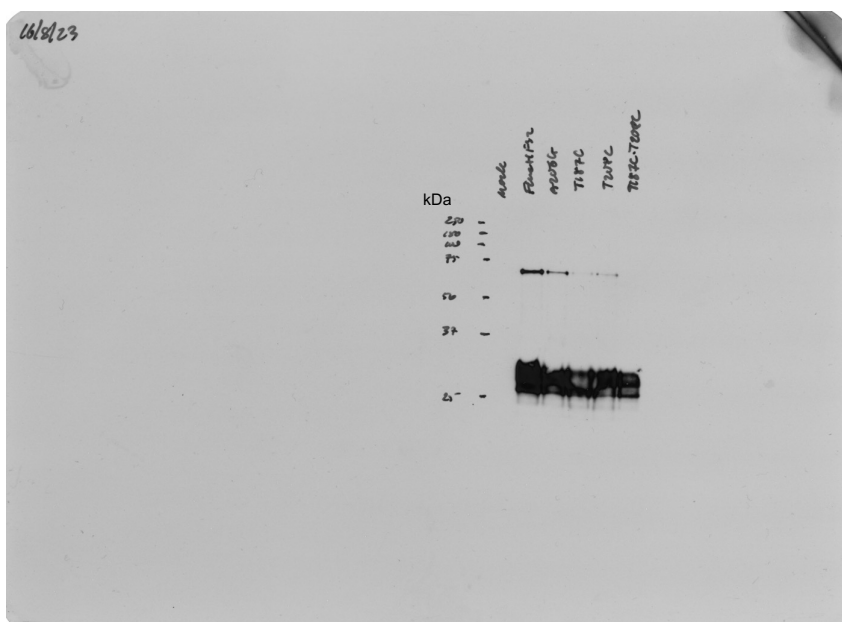
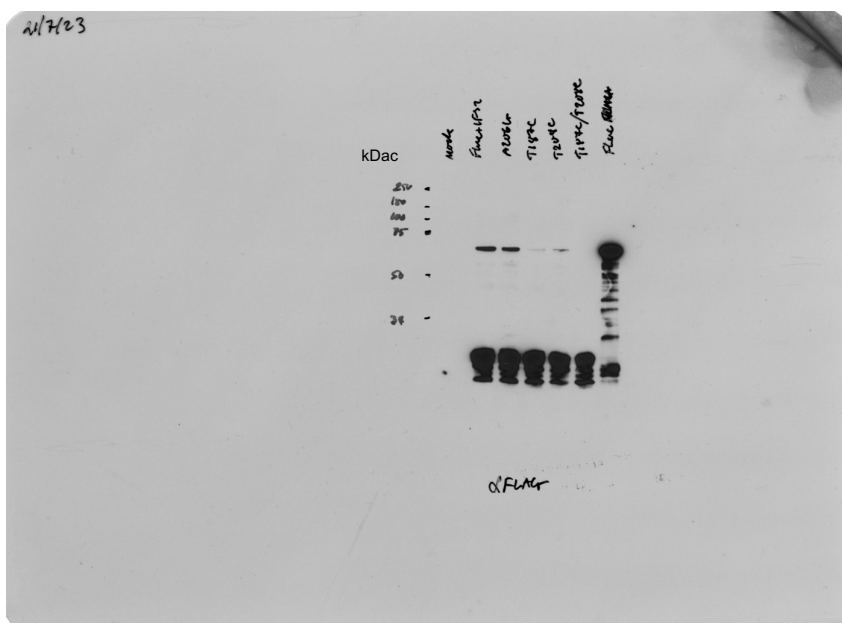
- (all)
1. Mock
 2. WTFLUC unmodified
 3. WTFLUC 1-methylΨ
 4. WTFLUC unmodified + paromomycin
 5. WTFLUC 1-methylΨ + paromomycin



Supplementary Fig. 4: Uncropped autoradiograph scans for autoradiograph displayed in Figure 4a

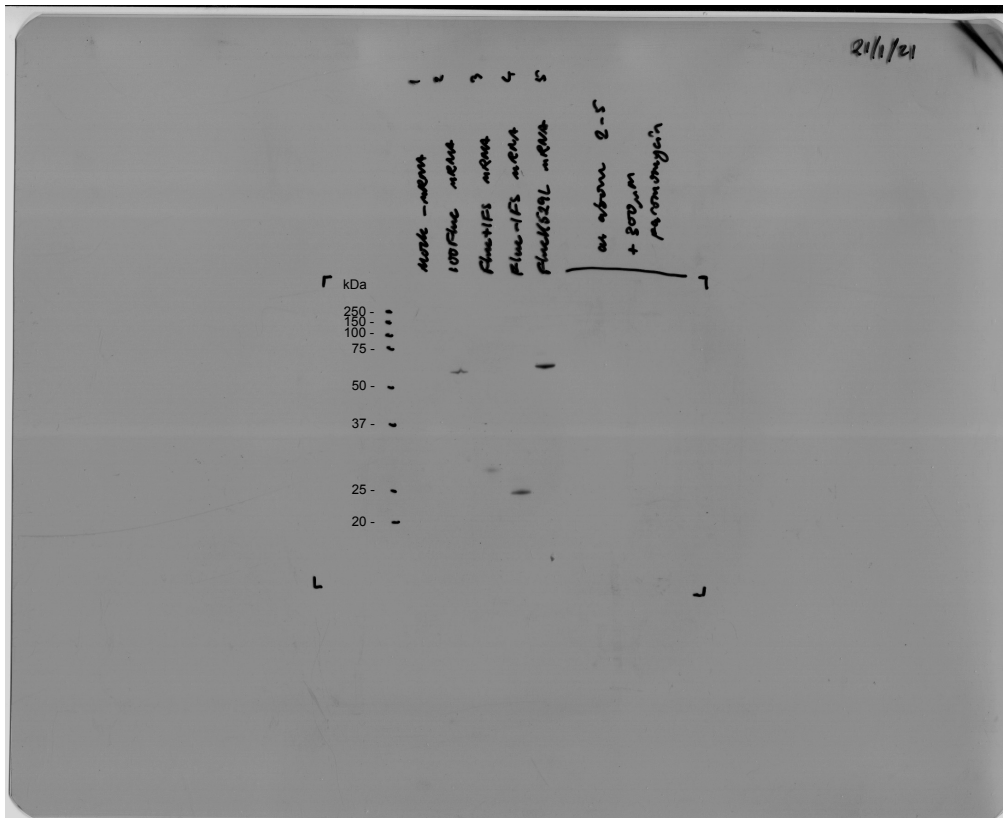


1. Mock
2. Fluc+1FS2
3. A206G
4. T187C
5. T208C
6. T187C.T208C

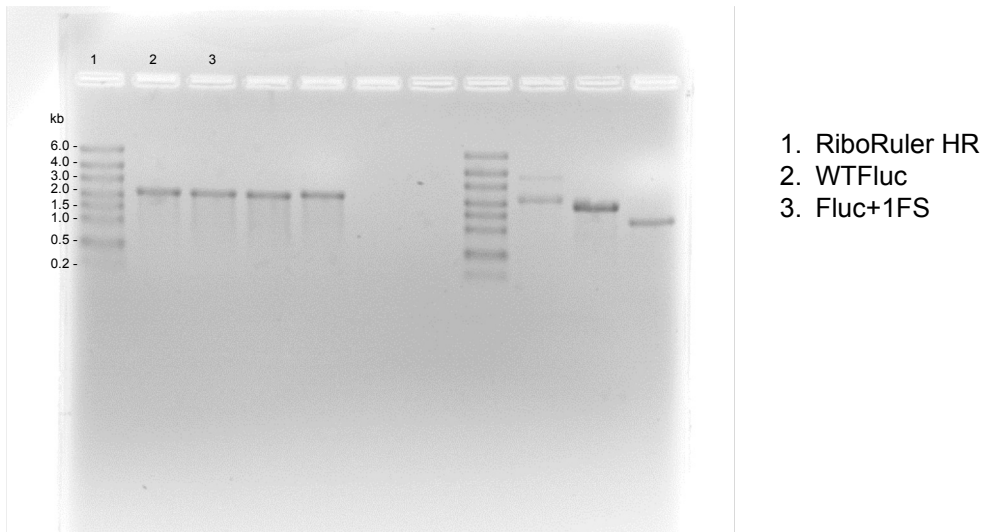


Supplementary Fig. 5: Uncropped films for western blot displayed in Figure 4e

a

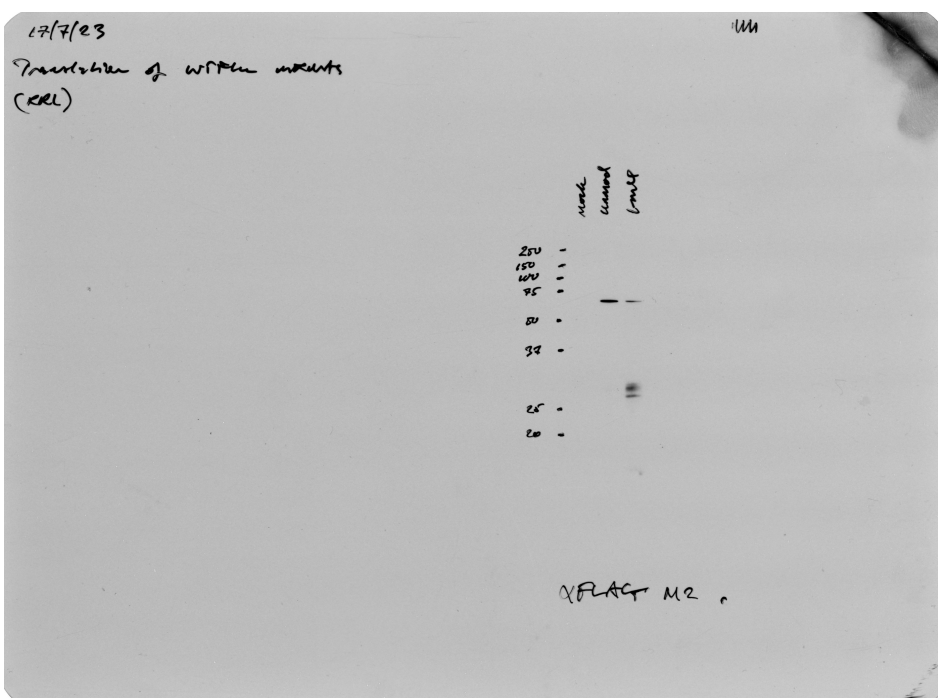
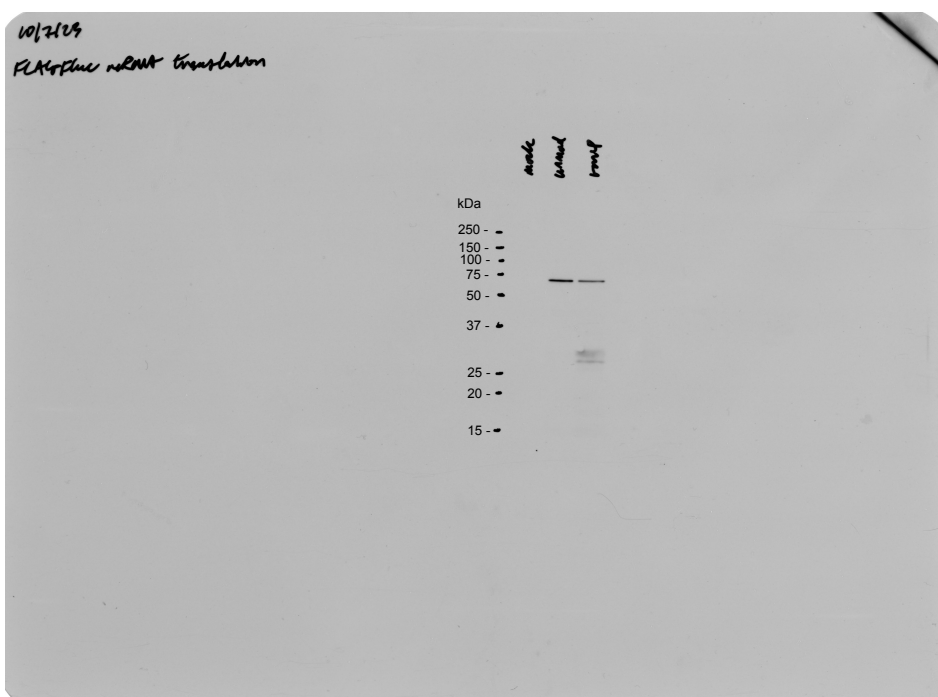
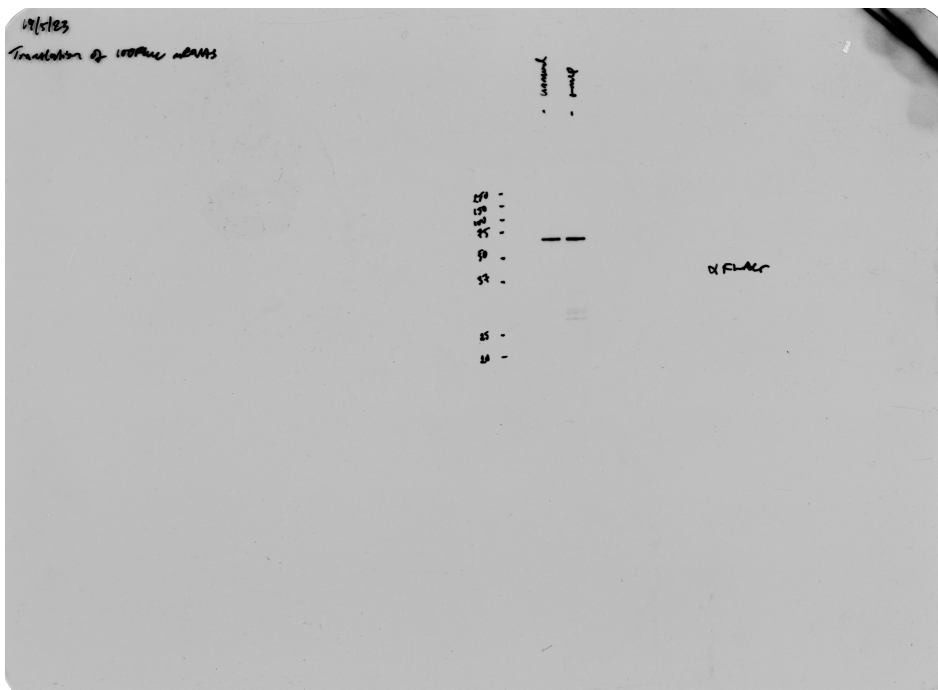


b



Supplementary Fig. 6. Uncropped images for Extended Data Fig. 1

a, Uncropped film for western blot displayed in Extended Data Fig. 1. **b**, Uncropped UV gel photograph for gel displayed in Extended Fig. 1.



Supplementary Fig. 7: Uncropped films for western blot displayed in Extended Data Figure 5