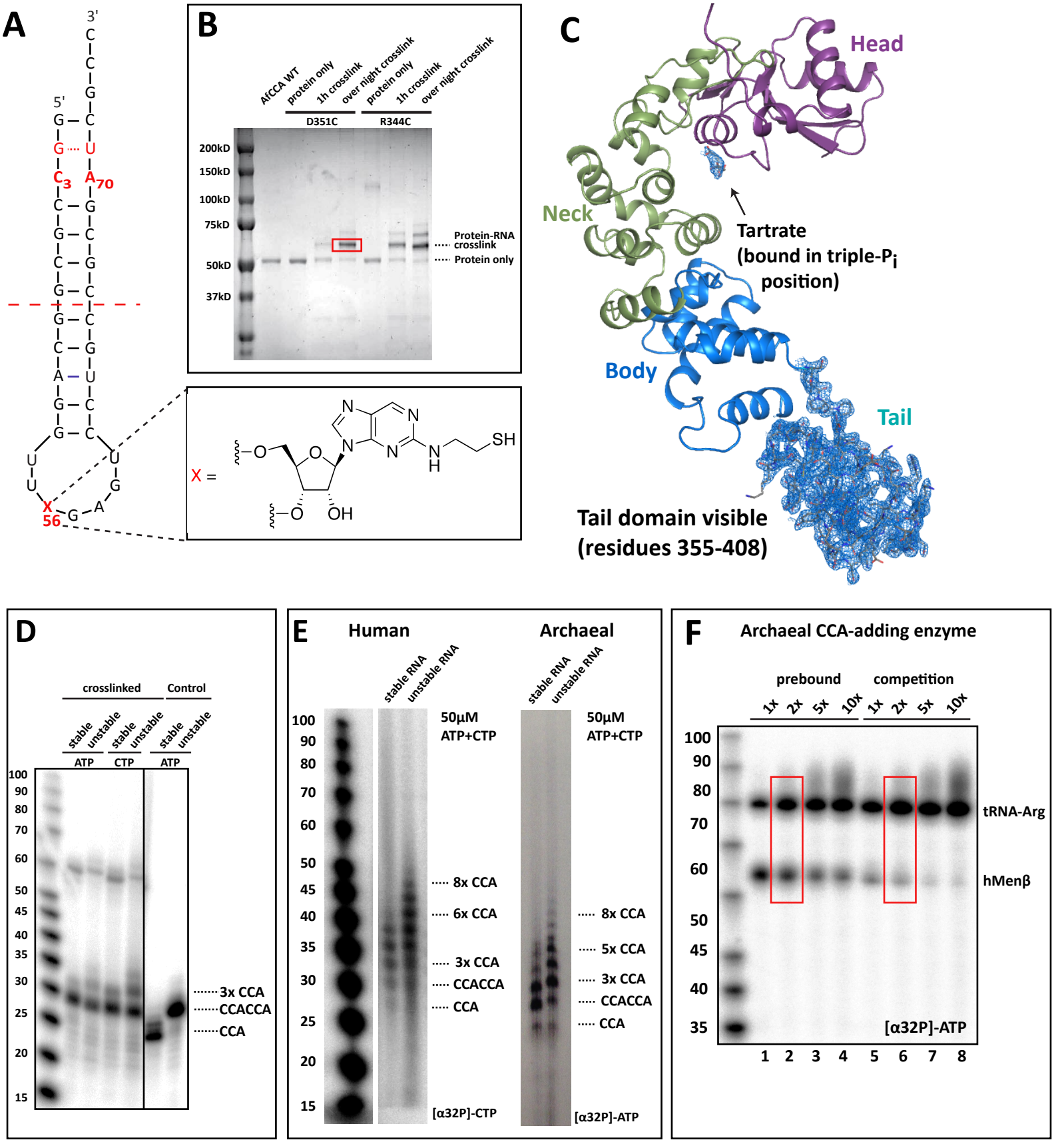
A
3'
5'
C3
A70
X
56
X =
B
AfCCA WT
protein only
1h crosslink
over night crosslink
protein only
1h crosslink
over night crosslink
D351C
R344C
200kD
150kD
100kD
75kD
50kD
37kD
Protein-RNA crosslink
Protein only
C
Head
Neck
Tartrate
(bound in triple-Pi position)
Body
Tail
Tail domain visible
(residues 355-408)
D
crosslinked
Control
stable
unstable
ATP
CTP
3x CCA
CCACCA
CCA
E
Human
Archaeal
stable RNA
unstable RNA
50μM
ATP+CTP
8x CCA
6x CCA
3x CCA
CCACCA
CCA
[α32P]-CTP
50μM
ATP+CTP
8x CCA
5x CCA
3x CCA
CCACCA
CCA
[α32P]-ATP
F
Archaeal CCA-adding enzyme
prebound
competition
1x
2x
5x
10x
tRNA-Arg
hMenβ
[α32P]-ATP