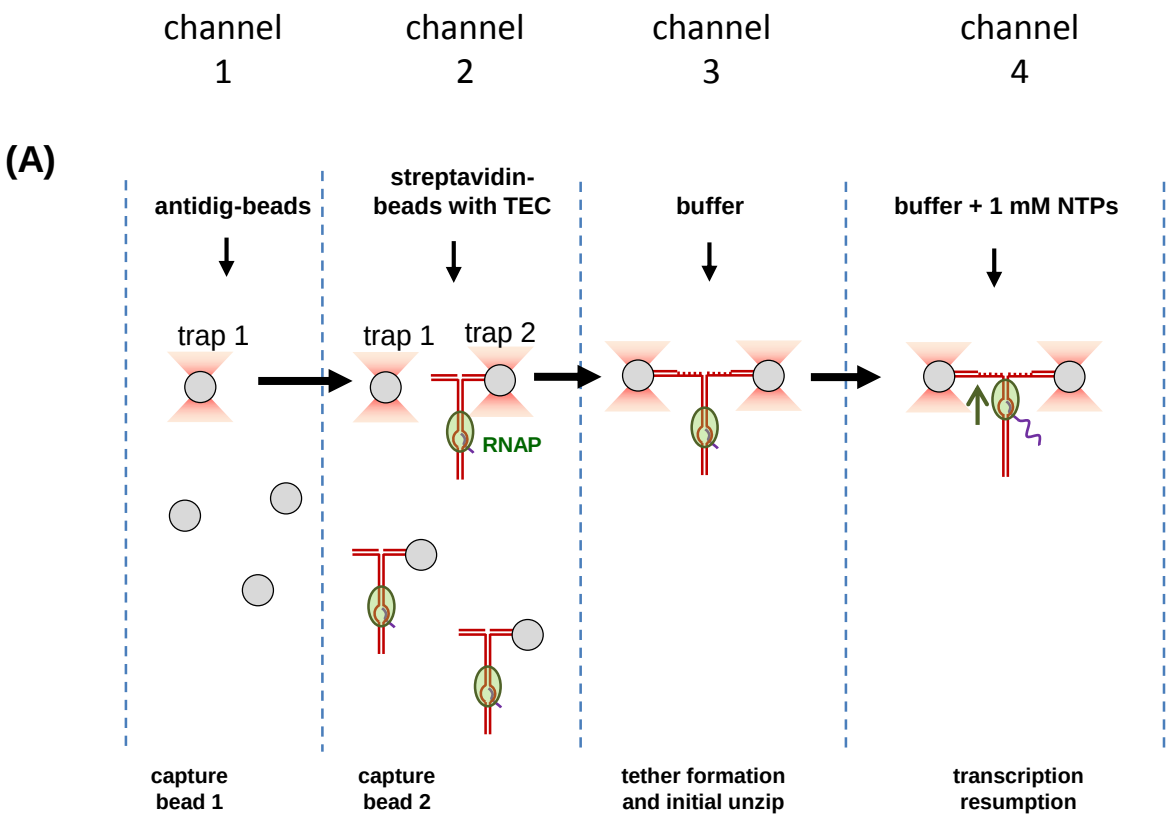
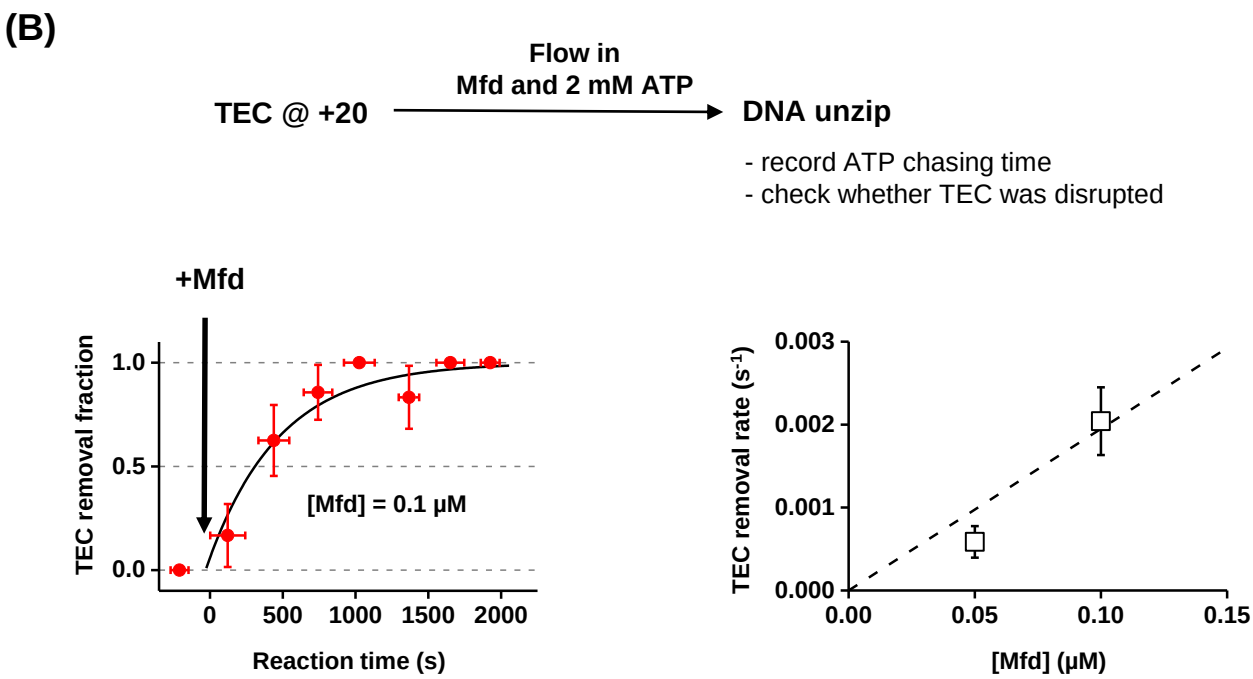
Figure S4


channel 1
channel 2
channel 3
channel 4
(A)
antidig-beads
streptavidin-beads with TEC
buffer
buffer + 1 mM NTPs
trap 1
trap 1
trap 2
RNAP
capture bead 1
capture bead 2
tether formation and initial unzip
transcription resumption


(B)
TEC @ +20
Flow in Mfd and 2 mM ATP
DNA unzip
- record ATP chasing time
- check whether TEC was disrupted
+Mfd
TEC removal fraction
1.0
0.5
0.0
[Mfd] = 0.1 μM
0
500
1000
1500
2000
Reaction time (s)
TEC removal rate (s-1)
0.003
0.002
0.001
0.000
0.00
0.05
0.10
0.15
[Mfd] (μM)