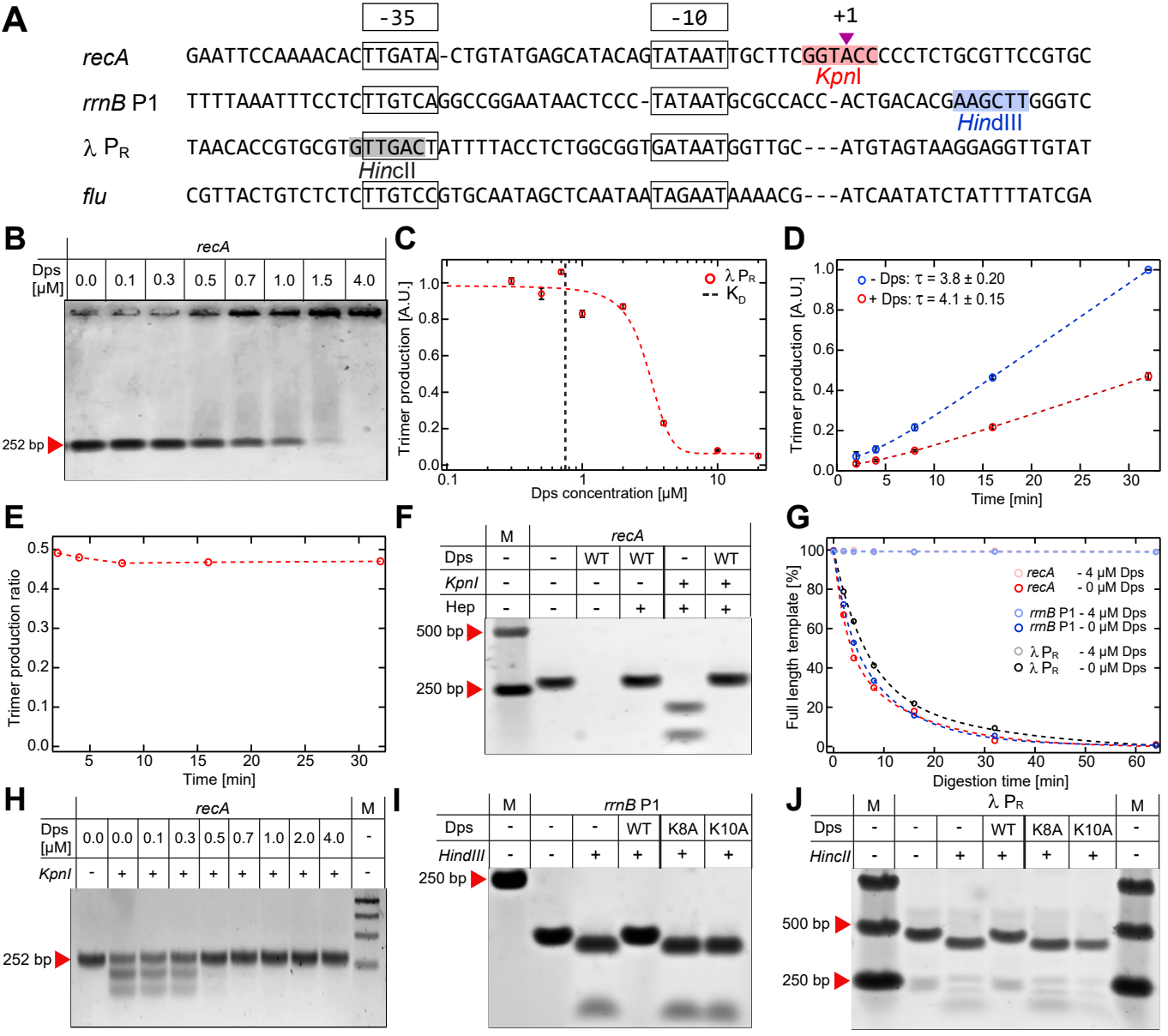
A
-35
-10
+1
recA GAATTCCAAAACACTTGATA-CTGTATGAGCATACAGTATAATTGCTTCGGTACCCCCTCTGCGTTCCGTGC
KpnI
rrnB P1 TTTTAAATTTCCTCTTGTCAGGCCGGAATAACTCCC-TATAATGCGCCACC-ACTGACACGAAGCTTGGGTC
HindIII
λ PR TAACACCGTGCGTGTTGACTATTTTACCTCTGGCGGTGATAATGGTTGC---ATGTAGTAAGGAGGTTGTAT
HincII
flu CGTTACTGTCTCTCTTGTCCGTGCAATAGCTCAATAATAGAATAAAACG---ATCAATATCTATTTTATCGA
B
recA
Dps [μM] 0.0 0.1 0.3 0.5 0.7 1.0 1.5 4.0
252 bp
C
Trimer production [A.U.]
Dps concentration [μM]
λ PR
K_D
D
- Dps: τ = 3.8 ± 0.20
+ Dps: τ = 4.1 ± 0.15
Trimer production [A.U.]
Time [min]
E
Trimer production ratio
Time [min]
F
M
recA
Dps - - WT WT - WT
KpnI - - - - + +
Hep - - - + + +
500 bp
250 bp
G
recA - 4 μM Dps
recA - 0 μM Dps
rrnB P1 - 4 μM Dps
rrnB P1 - 0 μM Dps
λ PR - 4 μM Dps
λ PR - 0 μM Dps
Full length template [%]
Digestion time [min]
H
recA
M
Dps [μM] 0.0 0.0 0.1 0.3 0.5 0.7 1.0 2.0 4.0 -
KpnI - + + + + + + + + -
252 bp
I
M
rrnB P1
Dps - - - WT K8A K10A
HindIII - - + + + +
250 bp
J
M
λ PR
M
Dps - - - WT K8A K10A -
HincII - - + + + + -
500 bp
250 bp