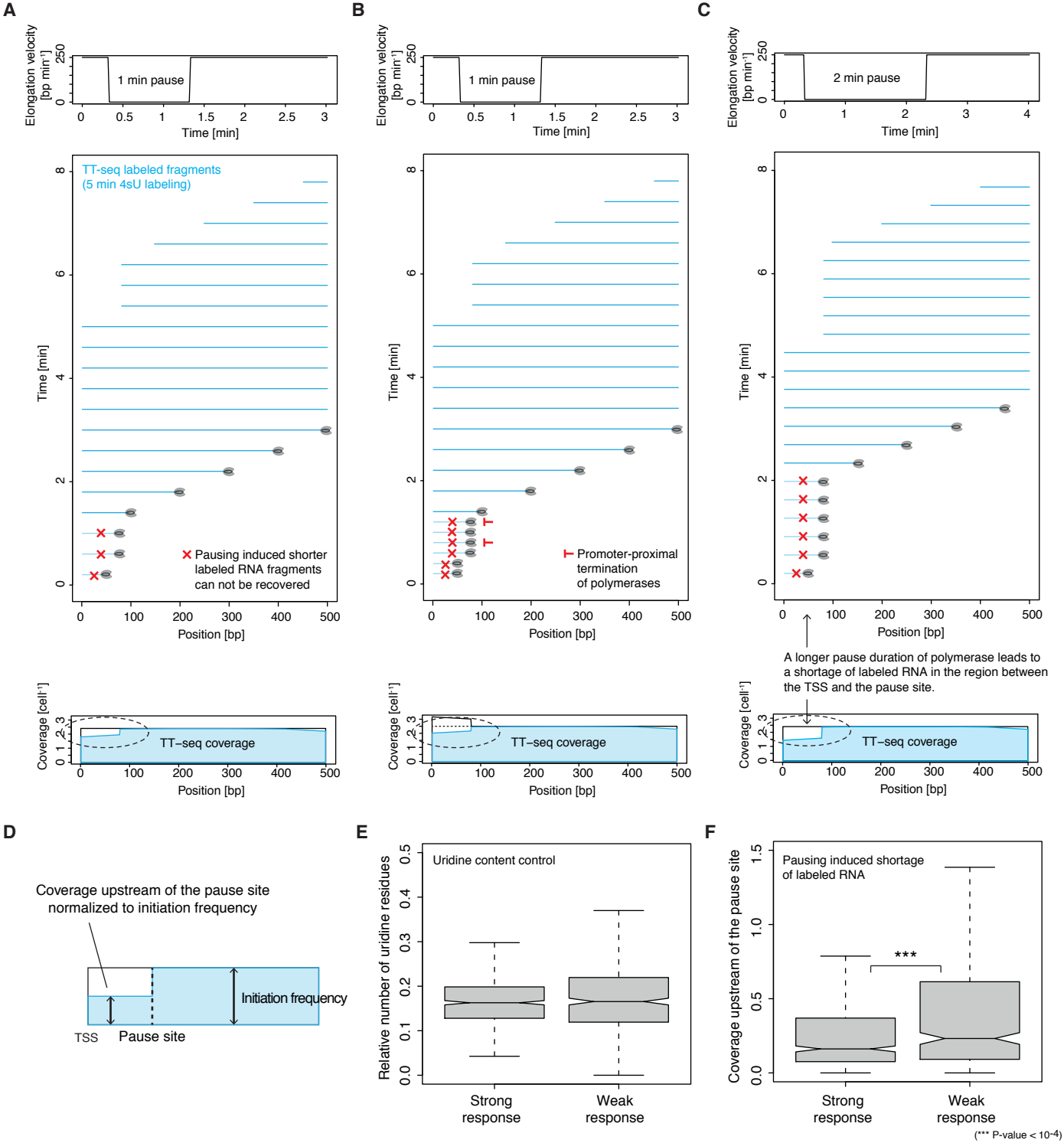
A
Elongation velocity [bp min⁻¹]
1 min pause
Time [min]
TT-seq labeled fragments (5 min 4sU labeling)
Pausing induced shorter labeled RNA fragments can not be recovered
Position [bp]
Coverage [cell⁻¹]
TT−seq coverage
B
1 min pause
Promoter-proximal termination of polymerases
C
2 min pause
A longer pause duration of polymerase leads to a shortage of labeled RNA in the region between the TSS and the pause site.
D
Coverage upstream of the pause site normalized to initiation frequency
Initiation frequency
TSS
Pause site
E
Uridine content control
Relative number of uridine residues
Strong response
Weak response
F
Pausing induced shortage of labeled RNA
Coverage upstream of the pause site
***
(*** P-value < 10-4)