

BRIAD DONAHUE

SII Cleavage

- allows RNA pol II to read thru pauses
- nascent cleavage required
- cleavage inhibited by  $\alpha$ -amanitin

GCCAA<sup>T</sup>TGG  
 CCGTAAAGC

① MAKE TEMPLATE



② TRANSCRIPTION

- ⓐ label 5' end
- ⓑ add heparin (inhibits initiation)
- ⓒ continue tx
- ⓓ

RESULTS

- ①  $\hat{IT}$  blocks tx, only when on txs
- ② **SII** addition leads to cleavage
  - readding NTPs allows elongation to dimer
- ③ pol II blocks CPD from photoreactivation
- ④ TFIIH ...

Why TFIIH MUTANTS

