

5' ~~~~~ AAAA3'

Starting Material: mRNA (sense)

CHOOSE LABELING METHOD

Labeling during initial reverse transcription



Hybridize to Sense Oligo Spots



Labeling during aRNA reaction



Labeling during transcription



Hybridize to Sense Oligo Spots



Labeling of aRNA during reverse transcription



Transcription



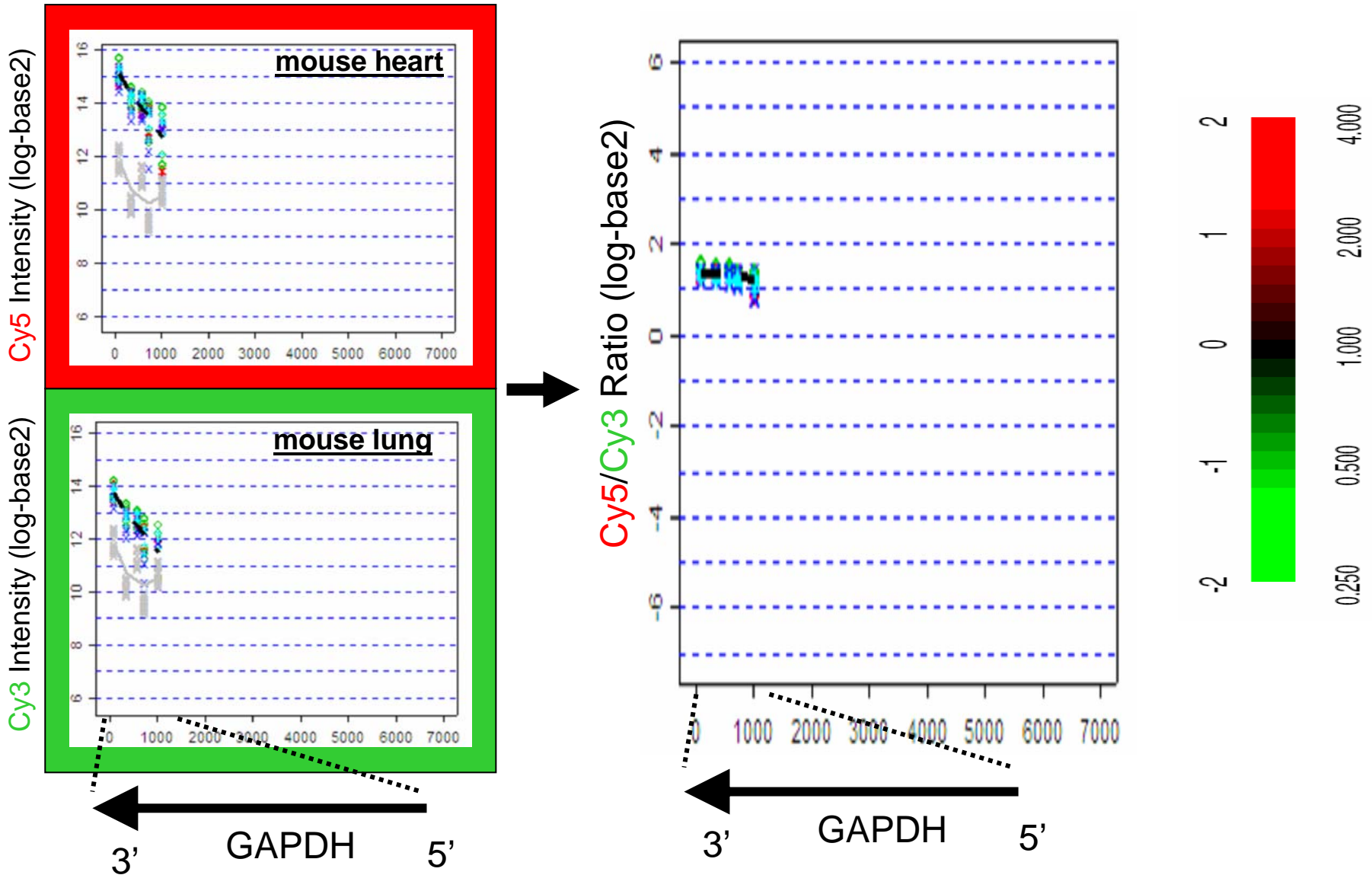
Labeling during reverse transcription



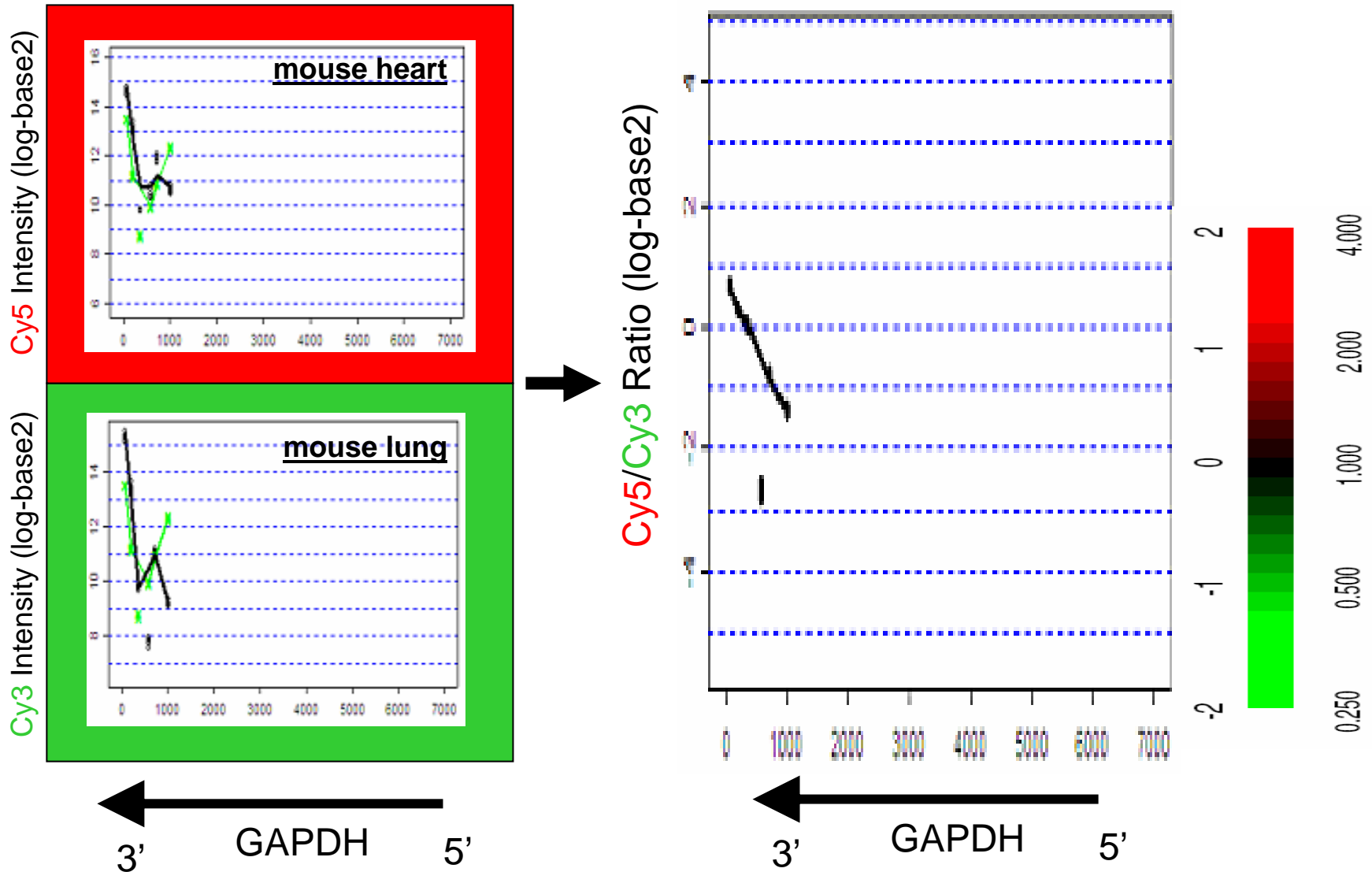
Hybridize to ANTI-sense Oligo Spots



3'-bias effect of dT-based priming: Decaying Signals, Stable Ratios over ~1kb

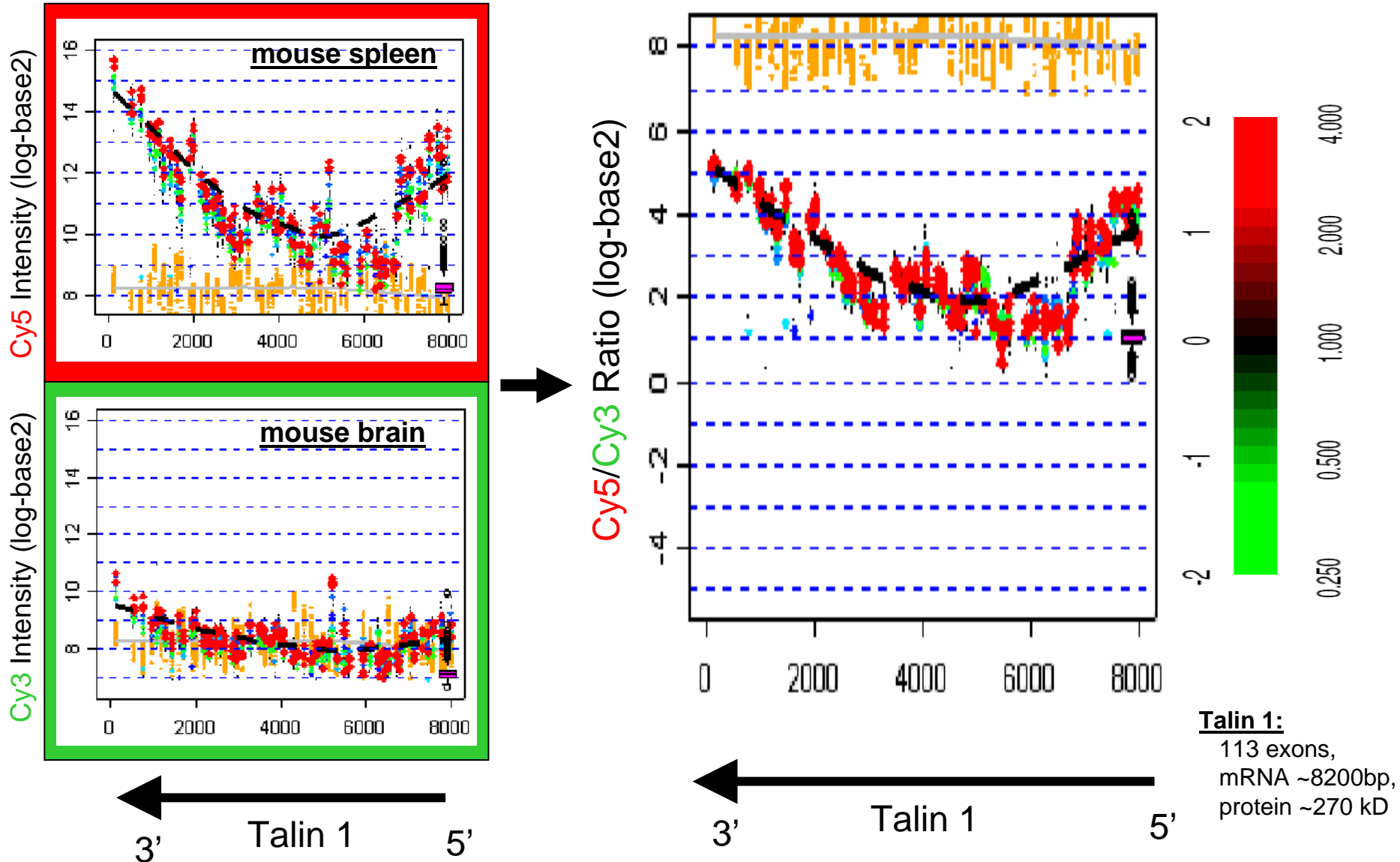


3'-bias effect of dT-based priming with Low Quality RNAs Decaying Signals, Unstable Ratios over ~1kb

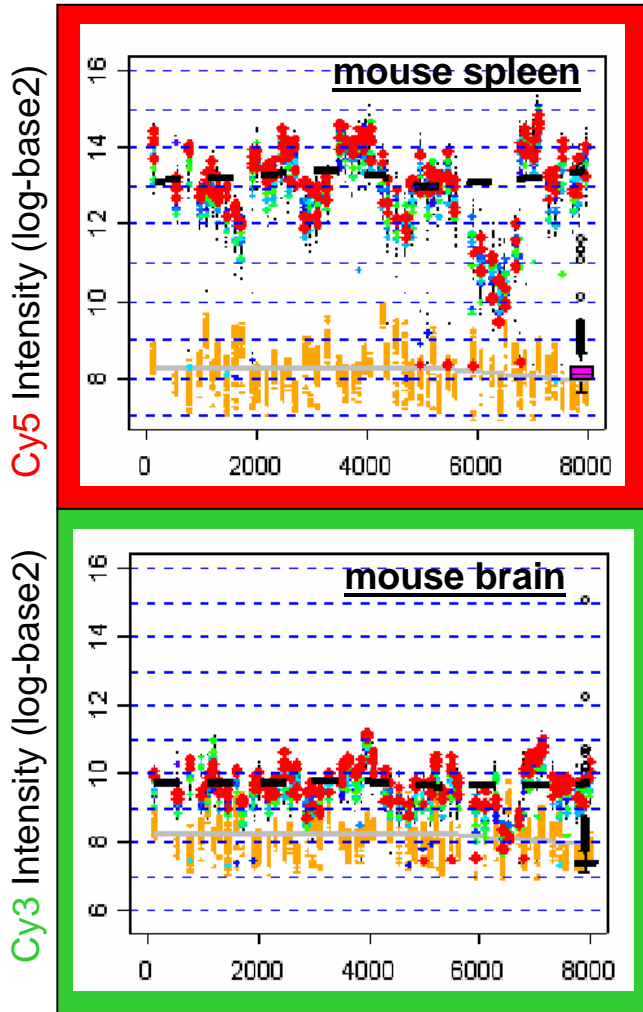


3'-bias effect of dT-based priming: How far can you go?

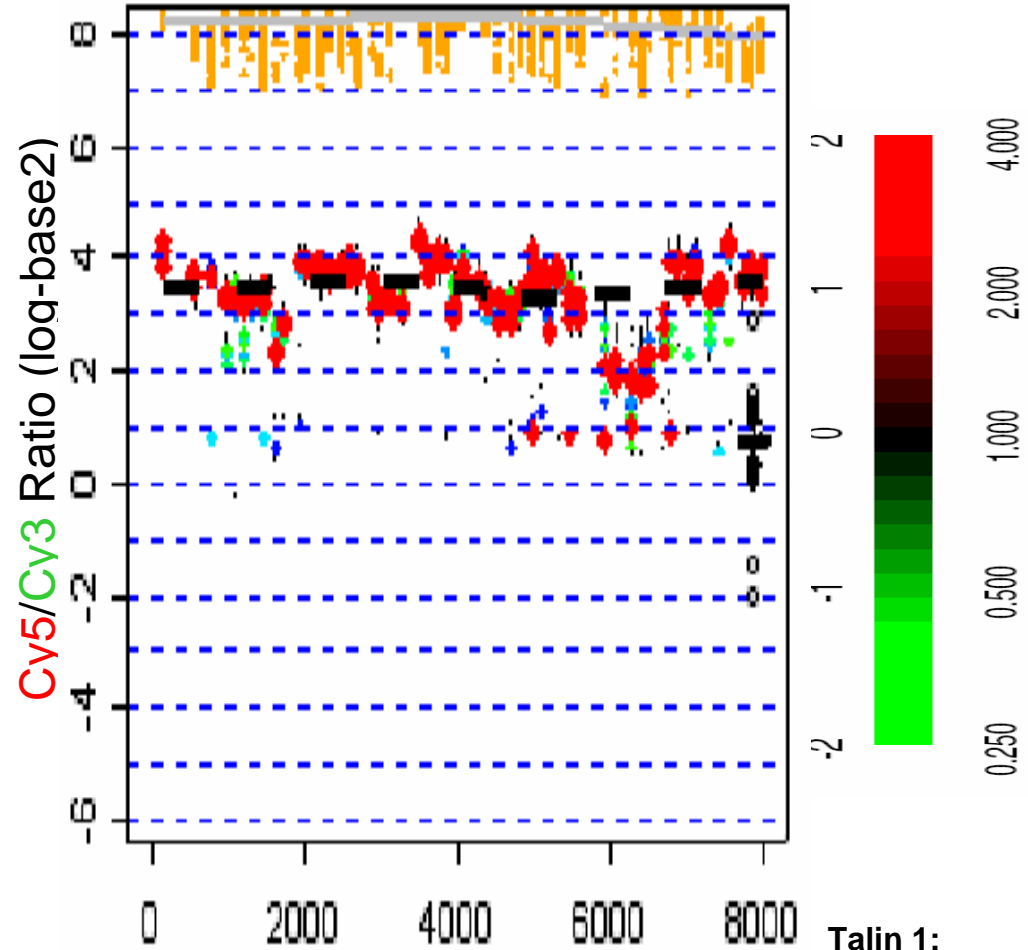
Decaying Signals, Unstable Ratios after ~1kb



Rescuing 3'-bias with random priming (pdN6): Variable Signals, Stablized Ratios



3' ← Talin 1 → 5'



3' ← Talin 1 → 5'

Talin 1:
113 exons,
mRNA ~8200bp,
protein ~270 kD