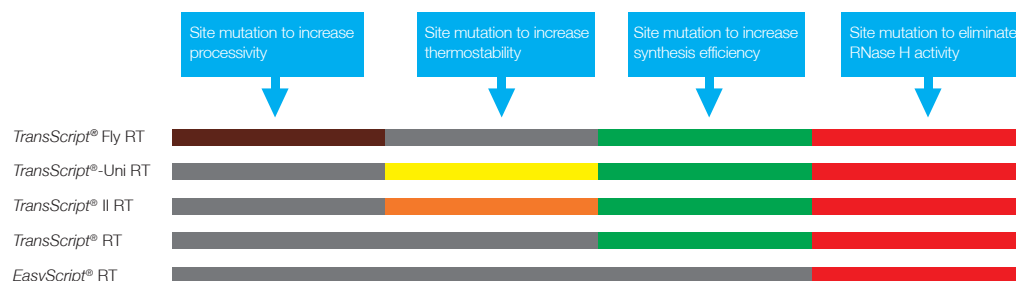
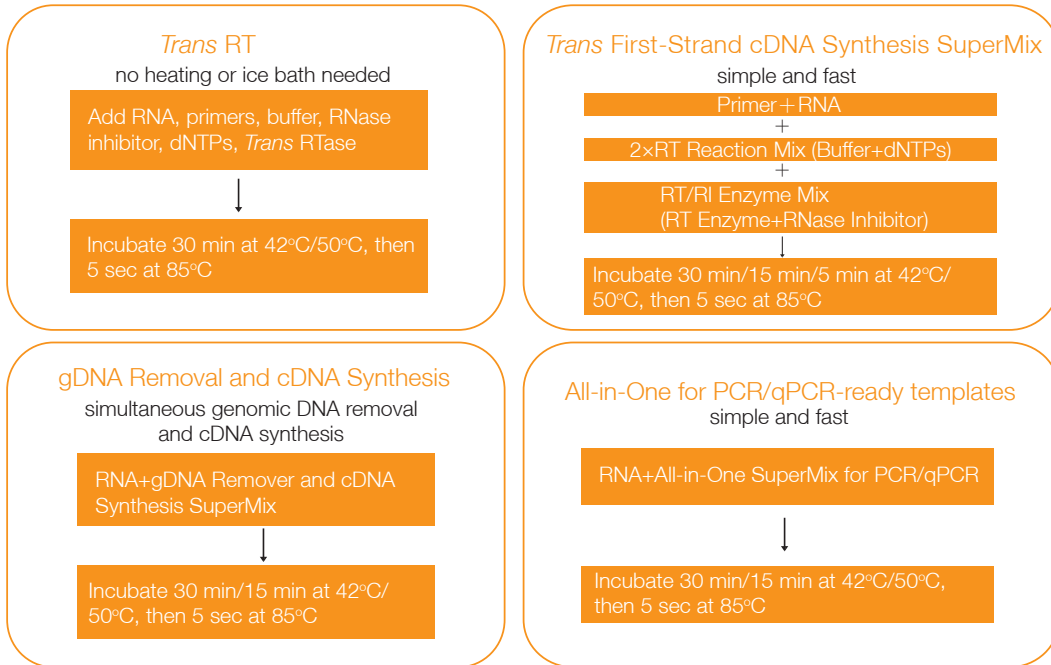


RT-PCR

Trans reverse transcriptases

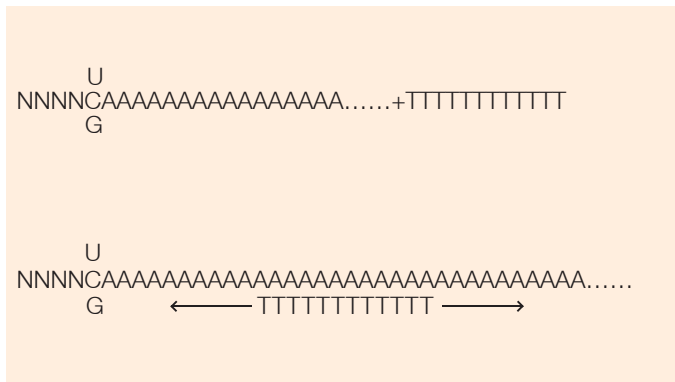


Products	Size of cDNA products	Temperature	Sensitivity	Fidelity	GC-rich or Complex template	Page
EasyScript® RT	≤8 kb	42°C	•	•	•	41
TransScript® RT	≤12 kb	42°C	••	••	••	43
TransScript® II RT	≤15 kb	42°C-55°C	•••	••	•••	44
EasyScript® First-Strand cDNA Synthesis SuperMix	≤8 kb	42°C	•	•	•	45
EasyScript® One-Step gDNA Removal and cDNA Synthesis SuperMix	≤8 kb	42°C	•	•	•	47
TransScript® First-Strand cDNA Synthesis SuperMix	≤12 kb	42°C	••	••	••	48
TransScript® One-Step gDNA Removal and cDNA Synthesis SuperMix	≤12 kb	42°C	••	••	••	49
TransScript® Fly First-Strand cDNA Synthesis SuperMix	≤12 kb	42°C	••	••	••	50
TransScript®-Uni One-Step gDNA Removal and cDNA Synthesis SuperMix	≤20 kb	42°C-65°C	•••	••	•••	51
TransScript®-Uni Cell to cDNA Synthesis SuperMix for qPCR	≤ 250 bp	42°C	•••	••	•••	53
TransScript® miRNA First-Strand cDNA Synthesis SuperMix	≤ 250 bp	42°C	••	••	••	55
TransScript® II First-Strand cDNA Synthesis SuperMix	≤15 kb	42°C-55°C	•••	••	•••	57
TransScript® II One-Step gDNA Removal and cDNA Synthesis SuperMix	≤15 kb	42°C-55°C	•••	••	•••	58
TransScript® All-in-One First-Strand cDNA Synthesis SuperMix for PCR	≤12 kb	42°C	••	••	••	59
TransScript® All-in-One First-Strand cDNA Synthesis SuperMix for qPCR (One-Step gDNA Removal)	≤ 250 bp	42°C	••	••	••	60
TransScript® II All-in-One First-Strand cDNA Synthesis SuperMix for PCR	≤15 kb	42°C-55°C	•••	••	•••	62
TransScript® II All-in-One First-Strand cDNA Synthesis SuperMix for qPCR (One-Step gDNA Removal)	≤ 250 bp	42°C-55°C	•••	••	•••	63
TransScript® Two-Step RT-PCR SuperMix	≤12 kb	42°C	••	••	••	64
TransScript® II Two-Step RT-PCR SuperMix	≤15 kb	42°C-55°C	•••	••	•••	65
EasyScript® One-Step RT-PCR SuperMix	≤4 kb	45°C	•	•	•	66
TransScript® One-Step RT-PCR SuperMix	≤8 kb	45°C	••	••	••	67
TransScript® II One-Step RT-PCR SuperMix	≤8 kb	50°C	•••	••	•••	68

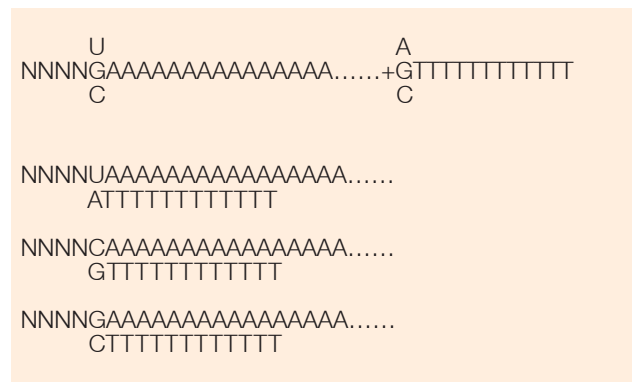


- *Trans* RT (except one-step kits) uses Anchored Oligo(dT) to increase cDNA yield and full length cDNA products.

Traditional Oligo(dT)₁₂₋₁₈ Primer



Anchored Oligo(dT) Primer



- | | |
|--|---|
| <ul style="list-style-type: none"> • Poly(A) tail can be a few hundreds nt long and Oligo(dT) Primer binds randomly. • Lower efficiency because of long poly(A) tail. • Less full length cDNA products. | <ul style="list-style-type: none"> • Anchored Oligo(dT) Primer only anneals at 5' end of the Poly(A) tail of mRNA. • Higher efficiency because of Anchored Oligo(dT) Primer. • More full length cDNA products. |
|--|---|