



DuraScribe® T7 Transcription Kits

High Yields of RNase A Resistant Transcripts Ready for Multiple Applications such as Aptamer/SELEX and RNAi Experiments

epicentre®
Exclusively available
thru Lucigen.

- **Stable:** DuraScribe® RNA, produced from this kit, is completely resistant to RNase A degradation
- **Multi-application Compatible:** Synthesize long or short RNase A resistant transcripts ready for use in aptamer screening using SELEX procedures or RNA interference
- **High Yields:** Produce at least 110 – 307 pmol of DuraScribe® RNA depending on the size of the transcript
- **Flexible Templates:** Accepts a variety of template DNAs with **standard T7 promoters** including linearized vectors, PCR products, cDNA, and dsDNA oligos

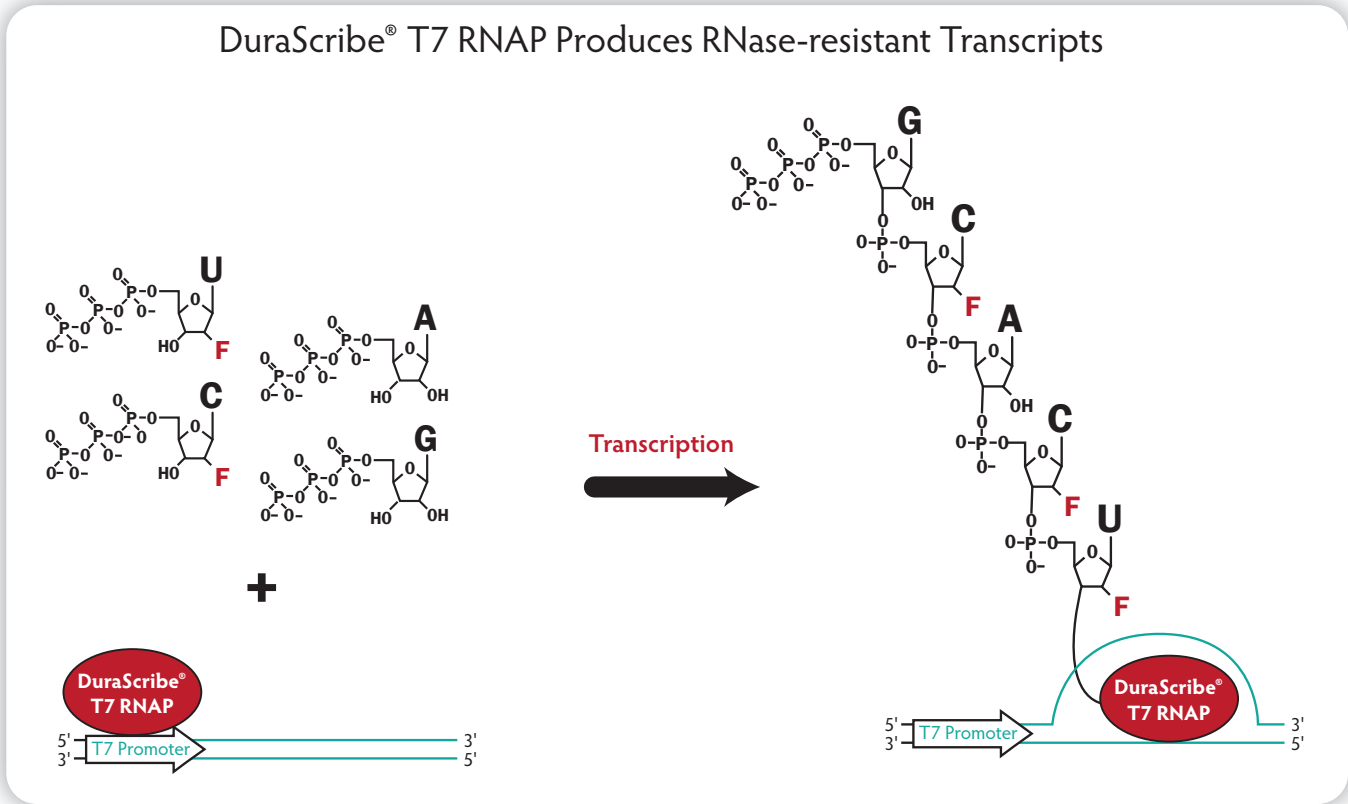


Figure 1. The DuraScribe® T7 RNA Polymerase efficiently incorporates 2'-F-dCTP and 2'-F-dUTP into full-length DuraScribe® RNA. The presence of the fluorine at the 2'-position of the 2'-F-dC and 2'-F-dU nucleotides prevents digestion by RNase A.



DuraScript® RNA is Completely Resistant to RNase A Degradation

M 1 2 3 4

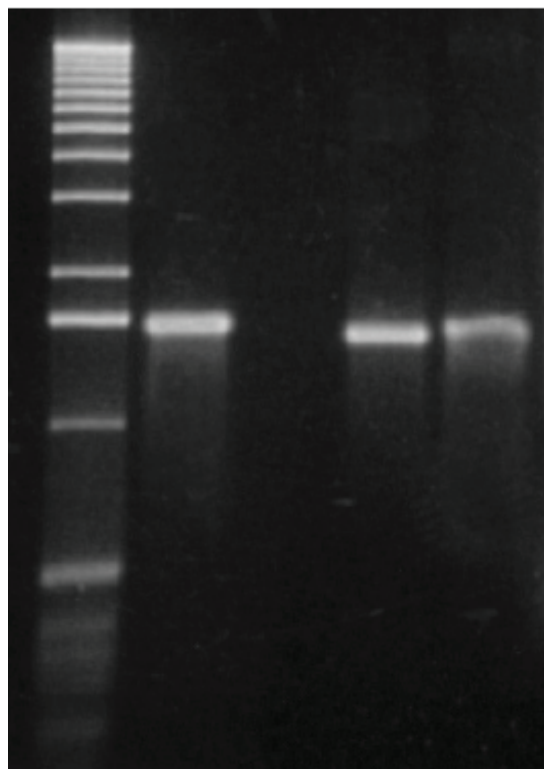


Figure 2. Testing the resistance of DuraScript® RNA to degradation by RNase A. A 1.4-kb standard RNA transcript and a 1.4-kb DuraScript RNA transcript were each incubated with 1 U of highly purified RNase A for 30 minutes and analyzed by gel electrophoresis. The standard RNA transcript was completely degraded while the DuraScript RNA transcript remained intact. Lane M, size ladder; lane 1, 1.4-kb standard RNA transcript; lane 2, standard RNA after RNase A treatment; lane 3, 1.4-kb DuraScript RNA; lane 4, DuraScript RNA after RNase A treatment.

High Yields of RNase A-resistant RNA with the DuraScribe® Kit

Size of DuraScript® RNA Produced	DuraScript RNA Yield	
	(µg)	(pmol)
2600 nts	100 µg	116 pmol
1400 nts	58 µg	124 pmol
330 nts	18 µg	164 pmol
88 nts	9 µg	307 pmol

Table 1. Typical DuraScript® RNA yields. One microgram of a 3-Kb DNA template was linearized at different sites and then transcribed in a DuraScribe T7 Transcription Kit reaction for 4 hours. The yield of DuraScript RNA produced from each template is shown in micrograms (µg) and in picomoles (pmol).



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For research use only. Not for human or diagnostic use.

Products

	Biozym Art Nr.	Size	Cat. No.
DuraScribe® T7 Transcription Kit	150310	10 rxns	DS010910
	150325	25 rxns	DSO10925

COMPONENTS

Each kit contains DuraScribe T7 Enzyme Mix, RNase-Free DuraScribe T7 10X Reaction Buffer, ATP, GTP, 2-F-dCTP, 2-F-dUTP, DNase I, DTT, Control Template DNA (linearized), Sterile Deionized Water.

