

	APPLICATION	HISCRIBE T7 HIGH YIELD RNA SYNTHESIS KIT (NEB #E2040)	HISCRIBET7 QUICK HIGH YIELD RNA SYNTHESIS KIT (NEB #E2050)	HISCRIBE T7 ARCA mRNA KIT (NEB #E2065)	HISCRIBET7 ARCA mRNA KIT (WITH TAILING) (NEB #E2060)	HISCRIBE SP6 RNA SYNTHESIS KIT (NEB# E2070)
Probe labeling	Fluorescent labeling: FAM, Cyanine (Cy) dyes, etc. • Fluorescent in situ hybridization (FISH)		✓			✓
	Non-fluorescent labeling: Biotin, Digoxigenin • In situ hybridization • Blot hybridization with secondary detection • Microarray		✓			✓
	High specific activity radiolabeling • Blot hybridization • RNase protection	✓				✓
mRNA & RNA for Transfection	Streamlined mRNA synthesis with ARCA enzymatic poly(A) tailingand co-transcriptional capping • Transfection • Microinjection • In vitro translation				✓	✓
	Streamlined ARCA capped RNA synthesis • Template encoded poly(A) tails • Non polyadenylated transcripts • Transfection • Microinjection • In vitro translation			✓		✓
	Co-transcriptional capping with alternate cap analogs • Transfection • Microinjection • In vitro translation		✓			✓
	Post-transcriptional capping with Vaccinia Capping System • Transfection • Microinjection • In vitro translation	✓	✓			✓
	Complete substitution of NTPs: 5-mC, pseudouridine, etc. • Induction of stem cell pluripotency • Modulation of cell fate or phenotype • Post translational capping with Vaccinia Capping System	✓				✓
	Partial substitution of NTPs: 5-mC, pseudouridine, etc.		✓	✓	✓	✓
	Unmodified RNA		✓			✓
	Hairpins, short RNA, dsRNA • Gene knockdown		✓			✓
Structure, function, & binding studies	Complete substitution of NTPs • Aptamer selection • Isotopic labeling	✓				✓
	Partial substitution of one or more NTPs • Aptamer selection • Structure determination		✓			✓
	Unmodified RNA • SELEX • Structure determination		✓			✓