

## CELLSCRIPT™ RNA 5' Capping Comparison Table

5' Capping is essential for optimal mRNA translation and stability. CELLSCRIPT™ offers kits for post-transcriptional capping using capping enzymes and co-transcriptional capping using Anti-Reverse Cap Analog (ARCA).

### Post-transcriptional capping

#### Achieve ~100% capping efficiency

- ScriptCap™ Cap 1 Capping System
- ScriptCap™ m<sup>7</sup>G Capping System
- ScriptCap™ 2'-O-Methyltransferase Kit

### Co-transcriptional capping

#### Products are ~80% capped / 20% uncapped

- MessageMAX™ T7 ARCA-Capped Message Transcription Kit V2
- INCOGNITO™ T7 ARCA 5mC- & Ψ-RNA Transcription Kit

Product	Approach	Cap 0	Cap 1	% capped products
ScriptCap™ Cap 1 Capping System	Post-transcriptional	X	X	~100%
ScriptCap™ m <sup>7</sup> G Capping System	Post-transcriptional	X		~100%
ScriptCap™ 2'-O-Methyltransferase Kit	Post-transcriptional		X*	~100%
MessageMAX™ T7 ARCA-Capped Message Transcription Kit V2	Co-transcriptional	X		80%
INCOGNITO™ T7 ARCA 5mC- & Ψ-RNA Transcription Kit	Co-transcriptional	X		80%

\*when used in conjunction with any Cap 0 RNA