

## 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