

## Certificate of Analysis

## Product Information

|                                                             |                                          |
|-------------------------------------------------------------|------------------------------------------|
| Product name: EZ Cap™ Cy5 Firefly Luciferase mRNA (5-moUTP) | Report No.: R202502005                   |
| Cat. No.: R1010                                             | Batch No.: 29                            |
| Manufacture date: Feb 25, 2025                              | Expiration date: 12 months (Provisional) |
| Quality Release Date: Feb 28, 2025                          | Storage: -40 °C or below                 |

## Molecule Data

|              |                                         |
|--------------|-----------------------------------------|
| Length       | 1921 nt                                 |
| Modification | EZ Cap™, 5-Methoxy-UTP, Cy5-UTP, poly A |
| Buffer       | 1 mM Sodium Citrate, pH 6.4             |

## Analytical Data

| Test Items           | Quality Specification and Method              | Result      |
|----------------------|-----------------------------------------------|-------------|
| Appearance           | Blue liquid                                   | Blue liquid |
| pH                   | 6.0–7.0                                       | 6.6         |
| Purity               | ≥95% ( Agarose Gel Electrophoresis )          | 100%        |
| Concentration        | 1.0-1.4 mg/ml ( UV-Vis Spectrophotometer )    | 1.2 mg/ml   |
| A 260/280            | 1.70-2.30 ( UV-Vis Spectrophotometer )        | 1.77        |
| Bacterial endotoxins | < 10 EU/mg ( Limulus Amebocyte Lysate Assay ) | < 10 EU/mg  |
| Conclusion           | Complies with the given specifications        |             |

Reporter/date: Jackie Wang Feb 28, 2025

Reviewer/date: Eudora Wei

Feb 28, 2025