GenScript mCherry mRNA (N1-Methylpseudouridine/m1Ψ)

The mCherry mRNA expresses the fluorescent protein mCherry, which is a DsRed protein found in Discosoma Sp. mCherry protein has a maximum excitation wavelength at 587nm and maximum emission at 610nm. Due to the overlap of excitation and emission, using 560nm as excitation wavelength and 620nm as emission wavelength is recommended for your assay. This mRNA is capped with Cap1 structure with high capping efficiency. It has 100% substituted with N1-methyl-pseudo Uridine for enhanced expression and reduced immunogenicity.   The mRNA has a 100A tail in its sequence, mimics a mature mRNA.

Name	Cat. No	Scale	Price	TAT
mCherry mRNA (N1-Methylpseudouridine/m1Ψ)	SC2346	0.2 mg	$350	4 calendar days
	SC2346	1 mg	$1300	4 calendar days

Concentration: 1mg/mL

Storage Buffer: 1mM Sodium citrate, pH6.5

Full mRNA length: 970 nt

Full mRNA Molecular Weight: 318370

Handling and Storage: Store at -20ºC for short term (<3 months), store at - 80ºC   for long term.

Cell Expression result:

Brief method: transfect 0.5 ug of mRNA using 0.5 uL of Lipofectamine™ MessengerMAX™ Transfection Reagent (or equivalent) for one well of cells in a 96 well plate following manufacture's instruction. Test the result after 12 to 16 hours using plate reader, or flow cytometry.   Suggest using excitation wavelength at 560 nm, emission wavelength at 620 nm for equipment setting.
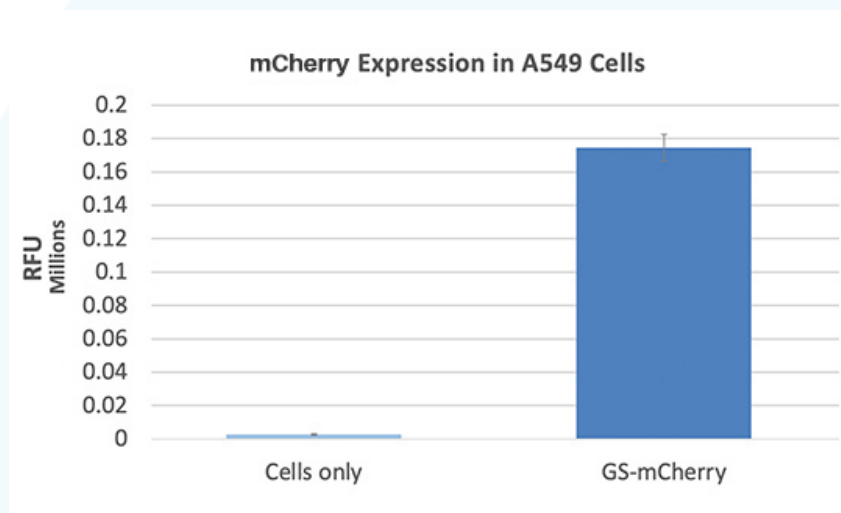
Expression of mCherry mRNA in A549 cells. The expression was measured 16 hours after transfection of by plate reader (Ex=560nm, Em=620nm). *GS-mCherry: mCherry mRNA from GenScript.*

mCherry mRNA ORF sequence:

ATGCTGTCTAAGGGCGAGGAAGATAACATGGCCATCATCAAGGAATTCATGAGATTCAAGGTCCACATGGAAGGTTCTG TGAATGGCCATGAGTTTGAGATCGAGGGAGAAGGCGAAGGAAGACCTTACGAGGGCACACAGACCGCCAAGCTGAA GGTGACAAAGGGCGGCCCTCTGCCCTTCGCCTGGGATATCCTGTCCCCTCAGTTCATGTACGGCAGCAAGGCCTATG TGAAGCACCCTGCTGATATCCCCGACTACCTGAAGCTGAGCTTCCCAGAGGGCTTCAAGTGGGAAAGAGTGATGAAC

TTCGAGGACGGCGGCGTGGTGACCGTGACCCAGGACAGCAGCCTGCAAGATGGAGAATTTATCTACAAGGTGAAACT
GCGGGGCACCAACTTCCCTAGCGACGGCCCCGTGATGCAGAAGAAGACCATGGGCTGGGAGGCCAGCTCCGAGAG
AATGTACCCCGAGGACGGAGCCCTGAAAGGCGAGATTAAGCAGCGGCTGAAGCTCAAGGACGGCGGACACTACGAC
GCCGAGGTGAAAACCACCTACAAAGCCAAGAAACCTGTGCAGCTGCCTGGCGCTTACAACGTTAATATCAAGCTGGAC
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GGACGAGCTGTACAAG