PRODUCT INFORMATION

β-galactosidase mRNA (unmodified)

v. 241201

Catalog number	CR00034-100UG / CR00034-1MG
Package	100 μg / 1 mg
Description	β-Galactosidase is a glycoside hydrolase enzyme that catalyzes the hydrolysis of terminal, non-reducing β-D-galactose residues in β-D-galactosides. The β-galactosidase assay is widely used in genetics, molecular biology, and other life science fields. The activity of β-galactosidase can be detected using X-gal, a synthetic substrate that produces a characteristic blue dye upon cleavage by the enzyme. Croyez' s β-Galactosidase mRNA was generated through *in vitro* transcription, and these mRNAs are then fortified at their 5' end by modified nucleotide capping, known as Cap1. To mimic the characteristics of fully processed mature mRNAs, we incorporate a poly(A) tail at the 3' end and optimize the mRNAs to enhance stability and overall performance. This ensures that the mRNAs function similarly to naturally occurring mature mRNAs in cells.
mRNA length	3443 nt
Base Composition	Unmodified bases
Concentration	1.0 mg/ mL
Cap Modification	Cap 1 structure
Poly A tail	Yes
Form	Liquid
Buffer	1 mM sodium citrate buffer, pH 6.4.
Storage	Products can be stored at -80°C or below. We recommend to aliquot the mRNA solution for a better storage. Avoid repeated freeze/thaw cycles.
Shipping	The products are shipped on dry ice and should be avoided for freeze-thaw cycles.
Application	Reporter Genes

For Research Use Only. Not for use in diagnostic or therapeutic procedures.