Certificate of Analysis



pEF1α-DsRed-Express2 Vector

Catalog No. Amount Lot Number

631979 10 μg Specified on product label.

Description

pEF1α-DsRed-Express2 is a mammalian expression vector that constitutively expresses the red fluorescent protein DsRed-Express2, even after stable integration of the vector into the host cell genome. Stable, constitutive expression of DsRed-Express2 is driven by the human elongation factor 1 alpha (EF1α) promoter, which allows the protein to be expressed without the transgene silencing associated with CMV promoters. The vector, which lacks an MCS, is designed to be used for cell labeling or as a marker of transfection efficiency.

Package Contents

• 1 tube of pEF1α-DsRed-Express2 Vector (20 μl/tube)

Storage Conditions

- Store plasmid at -20°C.
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

Shelf Life

• 1 year from date of receipt under proper storage conditions.

Storage Buffer

• 10 mM Tris-HCl (pH 8.0), 1 mM EDTA (pH 8.0)

Concentration

500 ng/μl

Shipping Conditions

• Dry ice (-70°C)

Propagation in *E. coli*

- Suitable host strains: DH5α, HB101 and other general purpose strains. Single-stranded DNA production requires a host containing an F plasmid, such as the JM109 or XL1-Blue strains.
- Selectable marker: plasmid confers resistance to kanamycin (50 μg/ml) in *E. coli* hosts.
- E. coli replication origin: pUC
- Copy number: high

Excitation and Emission of DsRed-Express2

Excitation: 554 nmEmission: 591 nm

pEF1α-DsRed-Express2 Vector

Quality Control Data

Plasmid Identity & Purity

Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

Enzyme(s)	Fragment(s)
NotI	5.4 kb
AgeI	1.1 & 4.3 kb

- Vector identity was confirmed by sequencing.
- \bullet A₂₆₀/A₂₈₀: 1.8–2.0

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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pEF1alpha-DsRed-Express2 Vector

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631979

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STATEMENT 72

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STATEMENT 24

DsRed2, DsRedExpress, DsRedExpress2, E2-Crimson, HcRed and pTimer are covered by one or more of the following U.S. Patent Nos. 7,166,444; 7,150,979; 7,157,565; 7,183,399; 7,858,844; 8,093,450; 8,461,769 and non-

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Notice to Purchaser



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