

pSEAP2-Basic Vector

Catalog No.

631715

Amount

20 µg

Lot Number

Specified on product label.

Description

pSEAP2-Basic is designed to enable the secreted form of human alkaline phosphatase (SEAP) to be used as a reporter gene for analysis of promoter and enhancer sequences.

Package Contents

- 20 µg pSEAP2-Basic Vector plasmid DNA

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

Plasmid Size

- 4.7 kb

Cloning sites

- Asp718I, KpnI, MluI, NheI, Srf , XhoI, BglII, HindIII, BsfBI, NruI, EcoRI

Antibiotic resistance

- Ampicillin (100 µg/ml)

Shipping Conditions

- Dry ice (–70°C)

Recommended sequencing primers

5' of MCS: 4619–4638 (5'-CTAGCAAAATAGGCTGTCCC-3')

3' of MCS: 185–165 (5'-CCTCGGCTGCCTCGCGGTTCC-3')

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(pSEAP2-Basic Vector)

Propagation in *E. coli*

- Suitable host strains: DH5 α and other general-purpose strains. Single-stranded DNA production requires a host containing an F' episome such as JM109.
- Selectable marker: plasmid confers resistance to ampicillin (100 μ g/ml) to *E. coli* hosts.
- *E. coli* replication origin: pUC
- Copy number: ~500
- Plasmid incompatibility group: pMB1/Col E1

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- pSEAP2-Basic Vector map

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:

Enzymes	Size (kb)
HindIII/XbaI	3.1 and 1.5 kb
AseI/BamHI	1.8, 1.6 and 1.3 kb

- Vector identity was confirmed by sequencing.
- 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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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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8/10/2018