lambdafoo

87099™

Description

Clone type: Vector

Storage Conditions

Product format: Freeze-dried

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can

be found at www.atcc.org.

Vector Information

Construct size (kb): 43.0
Intact vector size: 43.000
Vector name: lambdafoo (phage, lambda - replacement)
Type of vector: phage
Construction: lambda2001, lambda gene V
Host range: *Escherichia coli*
Vector information:
other: amber stop codon, ->
other: Pro-Thr box encoding a linker peptide, ->
other: amber stop codon
other: Pro-Thr box encoding a linker peptide
Cloning sites: HindIII; BamHI; SacI; EcoRI
Coding sequence: gene V N-terminal 176 aa, ->; gene V N-terminal 176 aa
Initiation codon: ATG
Insert detection: lacZ', ->
MCS: HindIII...EcoRI, ->
Polylinker sites: HindIII; BamHI; SacI; EcoRI
Restriction sites: SfiI; SfiI
Ribosome-binding site: Shine-Dalgarno sequence

Growth Conditions

Medium:
ATCC Medium 1592: SM buffer
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): BamHI--33.0, 9.4; EcoRI--33.0, 9.4; BglII--22.0, 8.8, 4.8, 4.6, 3.1; PstI--9.6, 9.0, 4.6,

3.2, 2.9, 2.8, 2.4, 2.2, 1.9, 1.9, 1.5.
- ATCC staff

Vector allowing expression of cloned inserts as a fusion protein on the phage particle surface. Inserts are fused to the C-terminus of a truncated phage tail protein by a peptide linker.
- Proc. Natl. Acad. Sci. USA 91: 8273-8277, 1994

Presence of the lacZalpha coding sequence and ribosome binding site allow blue-white color detection of recombinants, as well as allowing expression of a cloned insert separate from the phage tail protein.
- Proc. Natl. Acad. Sci. USA 91: 8273-8277, 1994

The Pro-Thr box encodes alternating prolyl and threonyl residues, which form a link between the N-terminal phage tail protein and the foreign protein.
- Proc. Natl. Acad. Sci. USA 91: 8273-8277, 1994

The linker resembles the hinge-region of IgA1 and allows separation of the foreign protein from the phage particles by digestion with enzymes such as Cellulomonas fimi protease or collagenase.
- Proc. Natl. Acad. Sci. USA 91: 8273-8277, 1994

Production of large amounts of fusion protein may inhibit phage assembly. A host allowing low efficiency suppression of the amber mutation is recommended.
- Proc. Natl. Acad. Sci. USA 91: 8273-8277, 1994

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: lambdafoo (ATCC 87099)

References

References and other information relating to this material are available at www.atcc.org.

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