pSLF172

87609™

Description

Clone type: Vector
Host: *Escherichia coli* HB101 (ATCC 33694)

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): 8.5
Intact vector size: 8.500
Vector name: pSLF172 (phagemid)
Type of vector: phagemid
Construction: REP4X
Host range: *Schizosaccharomyces pombe*; *Escherichia coli*
Vector information:
epitope tag: hemagglutinin (HA) triple tag
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Cloning sites: XhoI; BglII; NotI; BamHI; SalI; SmaI
Markers: ampR; ura4+
MCS: XhoI...SmaI, ->
Polylinker sites: XhoI; BglII; NotI; HA; triple; tag; BamHI; tag; SalI; SmaI
Promoters: Expression: nmt1 (full strength)
Replicon: ars1; pMB1, f1

Growth Conditions

Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): HindIII--5.8, 1.7, 1.0; EcoRI--7.4, 1.1; BglII--8.5.

- ATCC staff

The vector was designed to tag expressed protein at C-terminus with triple HA tag, which contains an internal BamHI site. The vector does not contain an ATG, which must be provided by the insert.
- Gene 191: 191-195, 1997

The fission yeast tagging vectors, pSLF172 (ATCC 87609), pSLF272 (ATCC 87610) and pSLF372 (ATCC 87611), contain three versions of the nmt1 promoter: full strength (nmt1), medium strength (nmt1*) and low strength (nmt1**), respectively.
- Gene 191: 191-195, 1997

The weaker promoters (nmt1* and nmt1**) contain mutations that attenuate both repressed and induced levels of expression.
- Gene 123: 131-131, 1993

Each version of the nmt1 promoter can be expressed at low or high levels in thiamine-free media.
- Gene 191: 191-195, 1997

The vector was constructed by 1) amplification by PCR with primers designed to flank the triple HA tag in Bluescript-HA and to modify the polylinker, 2) gel purification of the PCR product and digest with XhoI
- Gene 191: 191-195, 1997

and 3) ligation into REP4X cleaved with XhoI and SmaI.
- Gene 191: 191-195, 1997

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pSLF172 (ATCC 87609)

References

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

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