pRS422

87479™

Description

Clone type: Vector YE-type (episomal) shuttle vector
Host: *Escherichia coli* HB101 (ATCC 33694)

Storage Conditions

Product format: Frozen

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.

Insert Information

Target gene: phosphoribosylaminoimidazole succinocarboxamide synthetase

Vector Information

Construct size (kb): 6.868
Intact vector size: 6.868
Vector name: pRS422 (phagemid)
Type of vector: phagemid
Construction: pRS402, pRS421
Cloning sites: SacI; SacII; EagI; NotI; SpeI; BamHI; SmaI; PstI; EcoRI; ClaI; SalI; XhoI; ApaI; KpnI
Coding sequence: lacZ', ←, 2952-3311; lacZ'
Markers: ampR; ADE2
MCS: KpnI...SacI, →, 3148-3250
Polylinker sites: SacI; BstXI; SacII; EagI; NotI; XbaI; SpeI; BamHI; SmaI; PstI; EcoRI; EcoRV; HindIII; ClaI; SalI; XhoI; ApaI; KpnI
Promoters: T7, →, 3121-3140; T3, ←, 3267-3286; lac, ←, 3356-3384
Replicon: f1, ←, 2495-2951; pMB1, 3710-3710; 2 micron, 5460-6801

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): BamHI--6.8; BglII--4.6, 2.2; EcoRI--6.8.
- ATCC staff

ade2 phenotype produces red colonies when grown on adenine containing media.
- Yeast 14: 115-132, 1998

This vector is useful for gene knockout experiments in hosts with a non-revertable ade2 auxotrophic marker gene mutation.
- Yeast 14: 115-132, 1998

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRS422 (ATCC 87479)

References

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

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Revision

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