



pRS425

77106™

Description

This is a YE-type (episomal) yeast shuttle vector. It encodes the beta galactosidase alpha peptide for blue-white color detection of inserts and also has the T7 and T3 promoters for in vitro RNA synthesis and priming sites for sequencing. It also contains the REP3 and FRT sequences necessary for high copy propagation in yeast. In *S. cerevisiae*, the copy number is about 20 per haploid cell. In non-selective growth, plasmids are lost through mitotic segregation at rates in the range of 4.6 +/- 0.6% of progeny per doubling. The order of the major features in this plasmid is: ori(f1) - lacZ - T7 promoter - MCS (KpnI-SacI) - T3 promoter - lacI - ori(pMB1) - ampR - ori(2 micron) - LEU2.

Clone type: Vector

Host: *Escherichia coli* XL-1 Blue

Shipping information: *Escherichia coli* XL-1 Blue containing the phagemid in glycerol stock

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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

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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): 6.849

Vector name: pRS425 (phagemid)

Construction: pJS92, pRS305, pBluescript II SK+

Insert detection: lacZ'

Markers: LEU2; ampR

MCS: KpnI...SacI

Promoters: T7 (phi10); T3; lac

Replicon: 2 micron; f1; pMB1

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 gave the following sizes (in kb): BamHI 6.8 ; EcoRI 4.8, 2.1 ; XbaI 3.6, 3.2 ; PvuII 6.4, 0.5.

ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRS425 (ATCC 77106)

References

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

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