ATCC

Product Sheet

YXplac *S. cerevisiae*/*E. coli* shuttle vectors (ATCC® 87623™)

Please read this FIRST

Storage Temp.
Store unopened freeze dried vials at 4°C.

Biosafety Level
1

Intended Use

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

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: (ATCC® 87623™)

Shipping Information

Frozen samples of *E. coli* containing the plasmids.

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

A set of YE, YC and YI-type *S. cerevisiae*/*E. coli* shuttle vectors (ATCC#87585 87593) with LEU2, URA3 or TRP1 markers. The vectors have the pUC19 polylinker (all 10 cloning sites unique) and allow lacZ detection of cloned inserts.

ATCC#	Name	*E. coli* marker	*S. cerevisiae* marker
87585	YCplac22	ampR	TRP1
87586	YCplac33	ampR	URA3
87587	YCplac111	ampR	LEU2
87588	YEplac181	ampR	LEU2
87589	YEplac195	ampR	URA3
87590	YEplac112	ampR	TRP1
87591	YIplac204	ampR	TRP1
87592	YIplac128	ampR	LEU2
87593	YIplac211	ampR	URA3

Designation: YXplac *S. cerevisiae*/*E. coli* shuttle vectors

Notes

Restriction digests of the vector gave the following bands (in kb):BglI 2.1, 1.8; PstI 3.9. ---ATCC staff

Distributed In

Escherichia coli HB101

Vector Information

ATCC® Catalog No. 87585

Designation: YCplac22 plasmid in *E. coli*
Genbank Accession: X75455
Size of construct (kb): 4.854
Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII
Features (with orientation and position):
Promoter: lac, ->, 143-171
Insert detection: lacZ', ->, 216-500
MCS: HindIII….EcoRI, ->, 234-285
Centromere: CEN4, 504-1480
Replicon: ARS1, 1481-2225
Marker: TRP1, <-, 2063-2740
Marker: ampR, ->, 3053-3913
Replicon: pMB1, 4666
Notes: Restriction digests of the vector gave the following bands (in kb):AvaI – 2.9, 1.9; HindIII – 4.8; XbaI – 4.8.
---ATCC staff

ATCC® Catalog No. 87586

Designation: YCplac33 plasmid in *E. coli*
Genbank Accession: X75456
Size of construct (kb): 5.603
Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII
Features (with orientation and position):
Promoter: lac, ->, 143-171
Insert detection: lacZ', ->, 216-500
MCS: HindIII….EcoRI, ->, 234-285
Centromere: CEN4, 504-1480
Replicon: ARS1, 1481-2225
Marker: URA3, <-, 2563-3365
Marker: ampR, ->, 3802-4662
Replicon: pMB1, 5420
Notes: Restriction digests of the vector gave the following bands (in kb):AvaI – 3.7, 1.9; ClaI – 5.7; PstI – 5.6.

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ATCC® Catalog No. 87587

Designation: YCplac111 plasmid in *E. coli*
Genbank Accession: X75457
Size of construct (kb): 6.112
Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII
Features (with orientation and position):
Promoter: lac, ->, 143-171
Insert detection: lacZ', ->, 216-500
MCS: HindIII….EcoR, ->, 234-285
Centromere: CEN4, 504-1480
Replicon: ARS1, 1481-2225
Marker: LEU2, <-, 2589-3683
Marker: ampR, ->, 4311-5171
Replicon: pMB1, 5929
Notes: Restriction digests of the vector gave the following bands (in kb):BglII – 6.5; EcoRV – 6.5; BglI – 4.7, 1.7.
---ATCC staff

ATCC® Catalog No. 87588

Designation: YEplac181 plasmid in *E. coli*
Genbank Accession: X75460
Size of construct (kb): 5.741
Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII
Features (with orientation and position):
Promoter: lac, ->, 143-171
Insert detection: lacZ', ->, 216-500
MCS: HindIII….EcoR, ->, 234-285
Replicon: 2 micron ori, 743-2088
Marker: LEU2, <-, 2227-3319
Marker: ampR, ->, 3940-4800
Replicon: pMB1, 5558
Notes: Restriction digests of the vector gave the following bands (in kb):AvaI –5.2, 0.8; ClaI – 6.0; EcoRI – 6.0.
---ATCC staff

ATCC® Catalog No. 87589

Designation: YEplac195 plasmid in *E. coli*
Genbank Accession: X75459
Size of construct (kb): 5.241
Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII
Features (with orientation and position):
Promoter: lac, ->, 143-171
Insert detection: lacZ', ->, 216-500
MCS: HindIII….EcoR, ->, 234-285
Replicon: 2 micron ori, 743-2088
Marker: URA3, <-, 2201-2980
Marker: ampR, ->, 3440 - 4300
Replicon: pMB1, 5058
Notes: Restriction digests of the vector gave the following bands (in kb):AvaI – 4.2, 0.7; EcoRV – 5.0; PstI – 5.0.
---ATCC staff

ATCC® Catalog No. 87590

Designation: YEplac112 plasmid in *E. coli*
Genbank Accession: X75458
Size of construct (kb): 4.989
Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII

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Features (with orientation and position):
Promoter: lac, ->, 143-171
Insert detection: lacZ', ->, 216-500
MCS: HindIII….EcoR, ->, 234-285
Replicon: 2 micron ori, 743-2088
Marker: TRP1, <-, 2198-2875
Marker: ampR, ->, 3188-4048
Replicon: pMB1, 4806
Notes: Restriction digests of the vector gave the following bands (in kb):AvaI – 2.9, 1.3, 0.8; HindIII – 4.9; XbaI – 4.9.
---ATCC staff

ATCC® Catalog No. 87591

Designation: YIplac204 plasmid in *E. coli*
Genbank Accession: X75461
Size of construct (kb): 3.545
Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII
Features (with orientation and position):
Promoter: lac, ->, 143-171
Insert detection: lacZ', ->, 216-539
MCS: HindIII….EcoR, ->, 234-285
Marker: TRP1, <-, 772-1446
Marker: ampR, ->, 1744-2604
Replicon: pMB1, 3362
Notes: Restriction digests of the vector gave the following bands (in kb):AvaI – 2.0, 1.7; HindIII – 3.7; XbaI – 3.7.
---ATCC staff

ATCC® Catalog No. 87592

Designation: YIplac128 plasmid in E. coli
Genbank Accession: X75463
Size of construct (kb): 4.302
Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII
Features (with orientation and position):
Promoter: lac, ->, 143-171
Insert detection: lacZ', ->, 216-539
MCS: HindIII….EcoR, ->, 234-285
Marker: LEU2, <-, 797-1891
Marker: ampR, ->, 2501-3362
Replicon: pMB1, 4119
Notes: Restriction digests of the vector gave the following bands (in kb):BglI – 2.7, 1.6; PvuI – 2.6, 1.7; EcoRI – 4.3.
---ATCC staff

ATCC® Catalog No. 87593

Designation: YIplac211 plasmid in *E. coli*
Genbank Accession: X75462
Size of construct (kb): 3.797
Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII
Features (with orientation and position):
Promoter: lac, ->, 143-171
Insert detection: lacZ', ->, 216-500
MCS: HindIII….EcoR, ->, 234-285
Marker: URA3, <-, 775-1577
Marker: ampR, ->, 1996-2856
Replicon: pMB1, 3614

Propagation

Thaw contents of a vial in a 37°C water bath with gentle agitation. Transfer a loopful to a test tube containing 5 mL LB+50 µg/mL of ampicillin broth. A loopful of culture can also be streaked on an LB + amp agar plate.

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Shipping Information

Frozen samples of *E. coli* containing the plasmids.

Incubate cultures at 37°C. Isolate DNA using standard plasmid preparation procedures.

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

References

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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.
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