ATCC

Product Sheet

pGFLEX plasmid in *E. coli* (ATCC® 87629™)

Please read this FIRST

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: pGFLEX plasmid in *E. coli* (ATCC® 87629™)

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

Designation: pGFLEX plasmid in *E. coli*
Distribution Host:
Distribution host: *Escherichia coli* HB101 (ATCC 33694)

Propagation

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

Vector Information

Size (kb): 6.143
Intact vector size: 6.143
Type of vector: phagemid
Cloning sites: ClaI NotI ApI
Polylinker sites: BamHI EcoRI SmaI SalI XhoI NotI ApaI
Other unique sites: BglII BssHI EcoRV PstI PvuI ScaI SpeI
Construction: pUC19, pGPi-2, pIC-20H
Host range: mammalian cells; *Escherichia coli*
Features (with orientation and position when available):
Promoter: CMV, ->, 1-686
Promoter: lac, ->, 687-847
Leader Peptide: beta-gal leader sequence, 848-886
Coding Sequence: human GST pi, ->, 887-1516
Other: thrombin cleavage site, 1517-1524
MCS: BamHI...ApaI, 1525-1566
Stop Codons: TGA, 1570-1572
Replicon: f1 ori, 1895-2413
Promoter for Expression: SV40, ->, 2466-2800
Replicon: SV40 ori, 2669-2754
Coding Sequence: Neo, ->, 2836-3630
Terminator: SV40 polyadenylation, 3804-3939
Replicon: pMB1, 4373-4373
Marker(s): ampR, <-, 5131-5991

References

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

Notes

Restriction digests of the clone give the following sizes (kb): PstI--6.2; XhoI--4.1, 2.1; SalI--2.4, 2.1, 1.6. Recommendation for verification: StuI--4.84, 1.30; SalI--2.4, 2.18, 1.56; PstI--6.14; NotI--6.14.

High level of expression in *E. coli*, cos and other mammalian cultured cell lines.
- personal communication

The pGFLEX expression system allows production of target proteins fused to either the N or C terminus of the GST pi protein and provides rapid purification of target proteins as either GST fusions or native proteins after cleavage with thrombin.
- Gene 193: 229-237, 1997

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.

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ATCC Warranty

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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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