



Product Sheet

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

Please read this **FIRST**



### 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](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
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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 Apl

**Polylinker sites:** BamHI EcoRI SmaI SalI XhoI NotI Apal

**Other unique sites:** BglII BssHI EcoRV PstI PvuI Scal 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...Apal, 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](http://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

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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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