



Product Sheet

## pKSM714 (ATCC® 87160™)

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: pKSM714 (ATCC® 87160™)

### Shipping Information

Distributed: freeze-dried

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  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Designation:** pKSM714

**Distribution Host:**

Distribution host: *Escherichia coli* DH5alpha

## Propagation

**Growth Conditions**

**Temperature:** 37.0°C

**Medium**

ATCC® Medium 1236: LB Medium (ATCC medium 1065) with 25 mcg/ml kanamycin

## Vector Information

Size (kb): 5.0409998893737790

DESCRIPTION OF VECTOR:

Intact vector size: 5.041

Type of vector: phagemid

Cloning sites: BamHI HindIII XbaI Aval SmaI EcoRI

Polylinker sites: BamHI HindIII XbaI Aval SmaI EcoRI

Construction: pKSM710, pSM102

Host range: *Escherichia coli*

Features (with orientation and position when available):

promoter for in vitro transcription: T7lac, -, 20-36

promoter for expression: lacUV5, -, 197-226

MCS: BamHI...EcoRI, -, 340-391

insert detection: lacZalpha, -, 335-607

transcription terminator: T7, -, 609-650

transcription terminator: rrnB, -, 707-750

transcription terminator: rrnB, -, 881-910

transcription terminator: fd, -, 1006-1052

transcription terminator: fd, -, 1116-1162

replicon: fd, -, 1295-1750

replicon: pMB1, <-, 1903-2497

repressor gene: lacIq, -, 2666-3748

marker(s): kanR, -, 4174-4968

terminator: trpA, -, 4989-5016

Vector: pKSM714 (phagemid)

Promoters: Promoter for in vitro transcription T7lac

Construction: pKSM710, pSM102

Marker(s): kanR

Construct size (kb): 5.040999889373779

Features: insert detection: lacZalpha

marker(s): kanR

promoter for expression: lacUV5

promoter for in vitro transcription: T7lac

replicon: fd

replicon: pMB1

repressor gene: lacIq

MCS: BamHI...EcoRI

terminator: trpA

transcription terminator: T7

transcription terminator: fd

transcription terminator: rrnB

## 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): BamHI--5.0;



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EcoRI--5.0; PstI--4.2, 0.65.  
- ATCC staff

Expression vector.  
- Plasmid 31: 300-307, 1994

Differs from pKSM713 (ATCC 87159) only in the orientation of the pSM102 fragment containing lacIq, kanR and the trpA terminator.  
- Plasmid 31: 300-307, 1994

Vector contains the following restriction sites (approximate kb from nt 1):  
BamHI--0.34; BglII--4.14; EcoRI--0.39; KpnI--0.36, 2.59; NcoI--0.33, 4.74;  
PstI--4.35, 5.03; PvuII--0.51; PvuII--0.48, 3.62, 3.71, 4.05, 4.41; SacI--0.38,  
2.58; Sall--5.04.  
- Plasmid 31: 300-307, 1994



### 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](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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