



Product Sheet

## pExSec1 (ATCC® 87164™)

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: pExSec1 (ATCC® 87164™)

### 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:** pExSec1

**Distribution Host:**

Distribution host: *Escherichia coli* HB101 (ATCC 33694)

### 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): 3.3810000419616700

DESCRIPTION OF VECTOR:

Intact vector size: 3.381

Type of vector: phagemid

Cloning sites: EcoRI SacI Asp718 KpnI SmaI BamHI

Polylinker sites: EcoRI SacI Asp718 KpnI SmaI BamHI

Construction: pUK21, pET3b, pEZZ18

Host range: *Escherichia coli*

Features (with orientation and position when available):

promoter for in vitro transcription: T7, -, 82-98

ribosome-binding site: Shine-Dalgarno, -, 148-153

restriction site: NdeI, 159-164

leader peptide: synthetic ZZ sequence of protein A, -, 162-641

MCS: EcoRI...BamHI, -, 642-670

transcription terminator: T7, -, 673-795

other: M13 intergenic region, ->

marker(s): kanR, ->

replicon: M13

Vector: pExSec1 (phagemid)

Promoters: Promoter for in vitro transcription T7

Construction: pUK21, pET3b, pEZZ18

Marker(s): kanR

Construct size (kb): 3.38100004196167

Features: leader peptide: synthetic ZZ sequence of protein A

marker(s): kanR

other: M13 intergenic region

promoter for in vitro transcription: T7

replicon: M13

MCS: EcoRI...BamHI

restriction site: NdeI

ribosome-binding site: Shine-Dalgarno

transcription terminator: T7

### 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--3.4;

BglI/EcoRI--3.1, 0.3; EcoRI--3.4; BglII/EcoRV--3.2, 0.2.

- ATCC staff

Expression and secretion vector for *E. coli*.

- Gene 150: 187-192, 1994

Constructed using M13 replication and kanR selection mechanisms from pUK21, T7 regulatory sequences from a 271 bp BglII-EcoRV fragment of pET3b and leader



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peptide sequence and multiple cloning sites from pEZZ18.  
- Gene 150: 187-192, 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**

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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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