



## Product Sheet

(67273)

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### Intended Use

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

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#### U.S. Patent Number:

4,883,756

### Technical Information

ATCC Technical Services does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found on the international or [U.S. patent office](#) websites.

### Product Description

### Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

### SAFETY PRECAUTION

ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris.

### Unpacking & Storage Instructions

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

### Comments

This plasmid is distributed in *Streptococcus lactis*.

Preferred streptococci host strains include *S. lactis*, *S. lactis* subsp. *diacetylactis* and *S. cremoris*.

High frequency conjugal transfer plasmid, conferring phage restriction and modification activity and lactose fermentation to group N Streptococci.

The plasmid contains the following restriction sites (approximate kb from the SmaI site unique in pTR1040): BamHI--51, 93; BglII--23, 71; KpnI--25, 36, 54, 57; PstI--15, 35, 59, 86, 101; PvuI--31, 61, 75; Sall--18, 100; SmaI--0, 83, 102.

pTN1060 confers the following phenotype: Tra+, Lac+, nisR, R/M, and Clu-. nisR indicates resistance to the antimicrobial protein nisin and Clu- indicates the absence of the clumping phenotype. Cell aggregation is not imposed on transconjugants.

Verified to be gram positive, nisR and to grow in chains.

### Propagation

### References

References and other information relating to this product are available online at [www.atcc.org](http://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.

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Or contact your local distributor



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Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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#### ATCC Warranty

Patent Deposits not produced or characterized by ATCC are warranted for viability only. If you believe the culture you have received is nonviable, contact Technical Services by phone at 800-638-6597 or 703-365-2700 or by e-mail at [tech@atcc.org](mailto:tech@atcc.org). Or you may contact your local distributor.

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#### Disclaimers

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This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Website at [www.atcc.org](http://www.atcc.org)

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#### Disclosure

This material is cited in a US or other Patent and may not be used to infringe the claims. Depending on the wishes of the Depositor, ATCC may be required to inform the Patent Depositor of the party to which the material was furnished.

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

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