ATCC

Product Sheet

PJD220SVHY PLASMID IN ESCHERICHIA COLI

(67393)

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.

Shipping Information

Distributed: freeze-dried

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

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U.S. Patent Number:
4,980,289

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

Designation: PJD220SVHY PLASMID IN ESCHERICHIA COLI

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

Restriction digests of the clone give the following sizes (kb): BamHI--5.0, 0.4; PstI--2.7, 2.3, 0.4; XbaI--5.2.
Removal of SNV map units 7.747 to 8.127 results in deletion of the entire U3 sequence, except for 10 bp at the 5' end containing the attL site.
The 5' 10 bp of U3 in the left LTR were deleted, so there is no homology between the two U3 sequences and the risk of recombination is reduced.
A replication-defective retroviral vector which is promoter-deficient in the right LTR and cannot express retroviral RNA. Foreign gene expression is regulated by the SV40 early promoter.
pJD220SvHy (ATCC 67393) and pRD8 (ATCC 67394) differ in the orientation of the SV40 promoter/hygromycin phosphotransferase B sequences. pRD8 has an additional 3' RNA processing sequence between the left U5 and the hygromycin sequences.
pJD214Hy was constructed from 1.45 kb of SNV DNA ligated into the BamHI/EcoRI (nt 2066 to nt 4361) fragment of pBR322, a pUC12 polylinker, and the hygromycin phosphotransferase B gene (BamHI fragment blunt end-ligated into the HindIII site of the MCS).
Constructed from pJD217SVHy by inserting a 220 bp BamHI/HindIII fragment (SV40 poly(A) site) into the BamHI site at the 3' end of U5.
An intermediate, pJD217SVHy, was constructed from pJD214Hy by deleting a SacI/AvaI fragment (SNV map units 7.747-8.127) and replacing it with an XhoI linker, and inserting a 565 bp NdeI/HindIII fragment from pSV2-neo (SV40 promoter) at the XbaI site.

Propagation

Complete Growth Medium

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ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

References

References and other information relating to this product are available online at 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. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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. Or you may contact your local distributor.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.
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Additional information on this culture may be available on the ATCC web site at www.atcc.org.

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