



## Nucleic Acid Product Sheet

# Human genomic DNA (C13589) (ATCC® CRL- 2704D™)

### Please read this FIRST



Storage Temp.  
**-20°C or colder in  
a manual defrost  
freezer. Avoid  
freeze-thawing.**

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Biosafety Level  
**2**

### 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: Human genomic DNA (C13589) (ATCC® CRL-2704D™)

### Nucleic Acid Information

10 µg

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

**Source:** *Homo sapiens*

**Designation:** Human genomic DNA (C13589)

**Description:** High molecular weight genomic DNA isolated from the C13589 human lymphoblast cell line transformed with EBV.

**Note:**

C13589 is a B lymphocyte cell line established in March of 2001 by transformation of mononuclear cells taken from a fragile-X premutation female with 31 and 59 CGG-triplet repeats in the fragile-X gene, FMR1. This allele size is the smallest undergoing expansion to a full mutation (greater than 200 repeats) in one generation. This expansion to a full mutation with greater than 200 repeats occurs only on transmission through females. Fragile X is a common cause of inherited mental retardation and is caused by an expansion of a CGG repeat within the gene. This cell line can be used a standard for sizing.

**Formulation:** 1X TE buffer (10 mM Tris-HCL, 1 mM EDTA, pH 8.0)

**Concentration:** See lot-specific information

**Lot Number:** See lot-specific information

**Cell line description:** See lot-specific information

### Batch-Specific Information

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

### Quality Control Information

> 100 kb in size by agarose gel electrophoresis

No RNA detected in the agarose gel

$A_{260}/A_{280} > \text{ratio } 1.8$

Tested and verified for PCR amplification and restriction digestion.

### Biosafety Level: 2

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.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

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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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