

Control DNA CEPH 1347-02



Product P/N 403062A
Insert P/N 4340225A
Printed in U.S.A.

**For Research Use Only.
Not for use in diagnostic procedures.**

This kit contains cell line DNA from CEPH individual 1347-02. One tube is supplied containing 180 μ L of DNA at a concentration of 50 ng/ μ L in 10 mM Tris-HCl, 0.1 mM EDTA, pH 8.0. Enough material is supplied for 150 PCR amplifications when following the standard 15 μ L protocol for use with the ABI PRISM[®] Linkage Mapping Set.

For optimal results with genotyping projects, use one sample of control DNA in every plate of samples amplified and on every gel or with each new capillary. Use of control DNA is also recommended when running new gel conditions or making any other changes in experimental design.

Control DNA can be used to:

- Monitor PCR amplification efficiency.
- Control for gel-to-gel or capillary-to-capillary variation.
- Aid in allele binning.
- Correlate obtained allele sizes with data from external sources such as the CEPH database.

The use of CEPH individual 1347-02 DNA is recommended because:

- One allele of this individual has been sequenced by Généthon to generate their markers.
- This CEPH 1347-02 is the reference individual used by Généthon.
- DNA from this individual has been widely genotyped, so allele information in databases (e.g., CEPH) is very accurate.

PCR Amplification Setup and Conditions

For each reaction, mix the following components:

- 1.20 μ L Control DNA 1347-02 (50 ng/ μ L)
- 1.00 μ L Primer Mix (5 FM each primer)
- 1.50 μ L 10X GeneAmp[®]/E PCR Buffer II
- 0.12 μ L AmpliTaq Gold[®] DNA Polymerase (5 units/ μ L)
- 1.50 μ L MgCl₂ (25 mM)
- 1.50 μ L GeneAmp dNTP mix (2.5 mM each dNTP)
- 8.18 μ L dd H₂O
- 15.00 μ L Final Volume

For improved consistency and ease of use, we recommend preparing a master mix of these reagents based on the ratios listed.

Perform PCR amplification using a GeneAmp PCR System 9600 or a 2400 AB thermal cycler with the following profile times and temperatures:

Initial Step	Each of 10 Cycles			Each of 20 Cycles			Final Step	Hold
12 min	15 sec	30 sec	30 sec	15 sec	15 sec	30 sec	10 min	Hold
95° C	94° C	55° C	72° C	89° C	55° C	72° C	72° C	4° C

Reference our web site at <http://www.appliedbiosystems.com/> for more information on the ABI PRISM Linkage Mapping Set and other Applied Biosystems products.

Ancillary Products Disclaimer

This product is optimized for use in the DNA sequencing or fragment analysis methods covered by patents owned or licensable by Applied Biosystems. No license under these patents to use the DNA sequencing or fragment analysis methods is conveyed expressly or by implication to the purchaser by the purchase of this product. A license to use the DNA sequencing or fragment analysis methods for certain research and development activities accompanies the purchase of certain Applied Biosystems reagents when used in conjunction with an authorized DNA sequencing machine, or is available from Applied Biosystems. Further information on purchasing licenses to practice the DNA sequencing or fragment analysis methods may be obtained by contacting the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, U.S.A.

Notice to Purchaser: Disclaimer of License

The Control DNA CEPH 1347-02 is optimized for use in the polymerase chain reaction (PCR) covered by patents owned by Roche Molecular Systems, Inc. and F. Hoffmann-La Roche Ltd. No license under these patents to use the PCR Process is conveyed expressly or by implication to the purchaser by the purchase of these products. A license to use the PCR Process for certain research and development activities accompanies the purchase of certain Applied Biosystems reagents when used in conjunction with an authorized thermal cycler, or is available from Applied Biosystems. Further information on purchasing licenses to practice the PCR Process may be obtained by contacting the Director of Licensing at Applied Biosystems, 850 Lincoln Centre Dr., Foster City, California 94404 or Roche Molecular Systems, Inc., 1145 Atlantic Avenue, Alameda, California 94501, USA.