For general laboratory use. Not for use in diagnostic procedures. FOR *IN VITRO* USE ONLY.

Human tPA Control Primer Set

(For the amplification of 4.8, 9.3 and 15 kb fragments of the human tPA gene with the Expand Long Template PCR System)

Cat. No. 11 691 104 001

(3 × 25 assays)

Version March 2006

Store at −15 to −25°C

Product description

tPA primers are synthetic oligonucleotide primers designed for the sequence specific amplification of human tPA target DNA (1) by the polymerase chain reaction (PCR).

Concentration 200 ng/µl or 18 pmol/µl in redist. water.

Stability The primers should be stored at −15 to −25°C.

Typical analysis Content from capillary electrophoresis (area %) > 90%. The primers are tested with the Expand[1)] Long Template PCR System.

The set contains

1. **tPA forward 7**
   5' primer no. 7, 200 ng/µl (50 µl) for 50 assays
   Sequence: 5'-GGA AGT ACA GCT CAG AGT TCT GCA GCA CCC CTG C-3'
2. **tPA reverse 10**
   3' primer no. 10, 200 ng/µl (25 µl) for 25 assays
   Sequence: 5'-GAT GCG AAA CTG AGG CTG GCT GTA CTG TCT C-3'
3. **tPA reverse 14**
   3' primer no. 14, 200 ng/µl (25 µl) for 25 assays
   Sequence: 5'-CAA AGT CAT GCG GCC ATC GTT CAG ACA CAC C-3'
4. **tPA forward 1**
   5' primer no. 1, 200 ng/µl (25 µl) for 25 assays
   Sequence: 5'-CCT TCA CTG TCT GCC TAA CTC CTT CGT GTG TTC C-3'
5. **tPA reverse 2**
   3' primer no. 2, 200 ng/µl (25 µl) for 25 assays
   Sequence: 5'-ACT GTG CTT CCT GAC CCA TGG CAG AAG CGC CTT C-3'

Application

The primers are used for the amplification of large PCR fragments from human genomic DNA with the Expand Long Template PCR System*.
Primer concentration for the amplification of tPA fragments is 300 nM (1 µl of the primer in 50 µl reaction).

A detailed protocol is available with the Expand Long Template PCR System* product from Roche Applied Science. Especially for 15 kb amplification the success of PCR depends on the quality of the template used. Therefore, we recommend to use Human Genomic DNA* from Roche Applied Science as control template.

amplified PCR fragments	forward primer gene pos. 5´end	reverse primer gene pos. 5´end	annealing temperature
4.8 kb	tPA forward 7 (26 055)	tPA reverse 10 (30 850)	65°C
9.3 kb	tPA forward 7 (26 055)	tPA reverse 14 (35 388)	65°C
15 kb	tPA forward 1 (8301)	tPA reverse 2 (23 417)	62°C

Reference

1 Degen, S. J. et al. (1986) J. Biol. Chem. 261, 6972-6985.

Related products

Product	Pack size	Cat. No.
Expand Long Template PCR System	100 units 500 units	11 681 834 001 11 681 842 001
Human Genomic DNA	100 µg	11 691 112 001
Expand High Fidelity PCR System	100 units 500 units	11 732 641 001 11 732 650 001
Human Genomic DNA	100 µg	11 691 112 001

* available from Roche Applied Science

[1)] Expand is a trademark of a Member of the Roche Group.

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