Technical Data Sheet

Product name:

Human GAPDH promoter Primer Pairs

Diagenode sa
CHU, Tour GIGA B34, 3e étage
Avenue de l'Hôpital, 1
4000 Liège - Belgium

Catalog #: pp-1001-050	**Size:** 50 µl	**Concentration:** 10 µM	**Lot #:** 001 **Price:** 20 €
Catalog #: pp-1001-500	**Size:** 500 µl	**Concentration:** 10 µM	**Lot #:** 001 **Price:** 50 €

10 sets of our primer pairs: **50 µl (180 €)** **(see our list)**
500 µl (400 €)

Description: These primers are specific to a DNA region of the human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) promoter. These primers can be used to amplify DNA isolated by chromatin immunoprecipitation (ChIP). Primers are optimized to be used in quantitative polymerase chain reaction (qPCR) (**Figure 1 and Figure 2**).

Expected PCR product size: 51 base pairs (bp).

Specificity: Human: positive
Other species: not tested

Format: In solution in MiliQ water at the concentration of 10 µM.

Storage: For long storage, store at -20°C. Avoid multiple freeze-thaw cycles.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

References: -

Availability date: July 16, 2007. Last data sheet update: July 13, 2007

Lot #: 001/ day of synthesis: May 25, 2007/ day of QC: July 9, 2007
/ aliquoting day: July 13, 2007

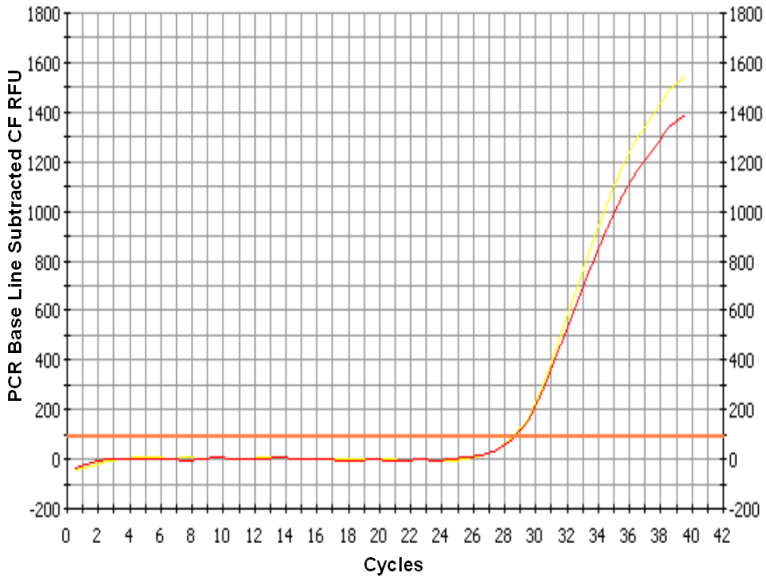

Figure 1: DNA from undifferentiated human teratocarcinoma NCCIT cells was analyzed in duplicate by real-time PCR starting from 5 µl of DNA template (0.01µg/ml) using the Diagenode primers to amplify a region of the GAPDH promoter (cat#: pp-1001-050, -500). One µl of provided primer pairs is used by PCR of 25 µl final volume. A Real-Time PCR Detection System and iQ SYBR Green have been used. qPCR conditions used are as follows: 95°C for 3 minutes, 40 cycles of: [95°C for 15 seconds, 60°C for 45 seconds] and 1 cycle of 95°C for 1 minute. Duplicates are shown in yellow and red. Threshold position is in orange.

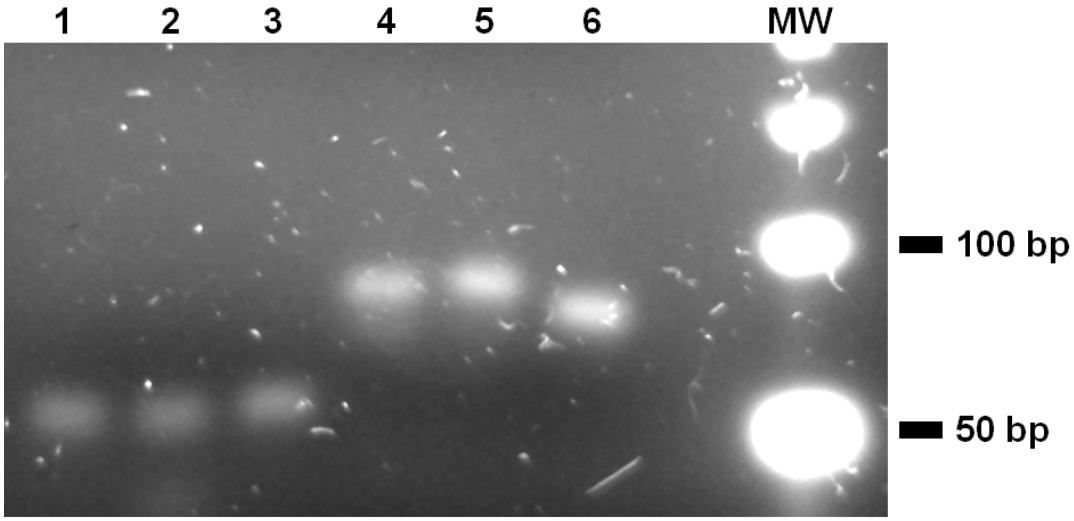

Figure 2: qPCR products were analysed by electrophoresis (2% agarose gel) stained with SYBR Safe and illuminated with UV light. The right lane shows molecular weight markers (MW) that decrease in size by 50 bp. Different qPCR products using different primer pairs which are available at Diagenode were tested: **1: primers for human GAPDH promoter (cat#: pp-1001-050 and cat#: pp-1001-500)**, 2: primers for human GAPDH promoter -0.5kb (cat#: pp-1002-050 and cat#: pp-1002-500), 3: primers for human GAPDH promoter -1.0kb (cat#: pp-1003-050 and cat#: pp-1003-500), 4: primers for human c-fos promoter (cat#: pp-1004-050 and cat#: pp-1004-500), 5: primers for human beta-actin promoter (cat#: pp-1005-050 and cat#: pp-1005-500) and 6: primers for human myoglobin exon 2 (cat#: pp-1006-050 and cat#: pp-1006-500).