

## TECHNICAL DATASHEET

# **Human GAPDH promoter**

# Primer pairs

Cat. No. C17011001 Size:  $50 \mu l/500 \mu l$ Concentration:  $10 \mu M$ 

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

 $\textbf{Specificity:} \ \textbf{Human:} \ \textbf{positive.} \ \textbf{Other species:} \ \textbf{not tested.}$ 

Format: In solution in MiliQ water at a concentration of 10  $\mu$ M

(5 µM each)

**Storage:** For long storage, store at -20°C. Avoid multiple

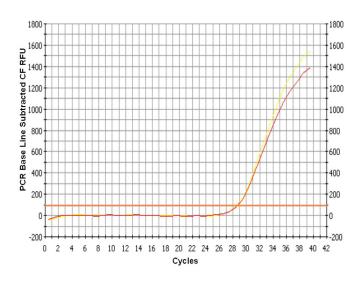
freeze-thaw cycles.

Precautions: This product is for research use only. Not for

use in diagnostic or therapeutic procedures.

**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**).

## Results



#### Figure 1.

DNA from undifferentiated human teratocarcinoma NCCIT cells was analyzed in duplicate by real-time PCR starting from 5  $\mu l$  of DNA template (0.01 $\mu g/ml$ ) using the Diagenode primers to amplify a region of the GAPDH promoter (Cat. No. C17011001). One  $\mu l$  of provided primer pairs is used by PCR of 25  $\mu l$  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.

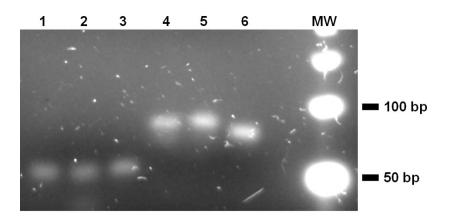


Figure 2.

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. No. C17011001), 2: primers for human GAPDH promoter -0.5kb (Cat. No. C17011002), 3: primers for human GAPDH promoter -1.0kb (Cat. No. C17011003), 4: primers for human c-fos promoter (Cat. No. C17011005), 5: primers for human beta-actin promoter (Cat. No. C17011005) and 6: primers for human myoglobin exon 2 (Cat. No. C17011006).