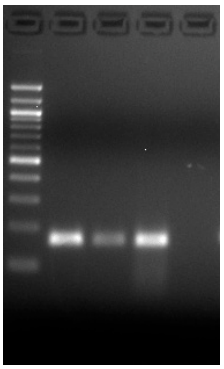
ChIP-IT™ Control Kit - Human

Catalog No: 53010



Lane	Template	Primers
1	DNA Ladder	–
2	RNA pol II	GAPDH
3	Negative IgG	GAPDH
4	Input DNA	GAPDH
5	H_2O control	GAPDH

Quality Control:

ChIP-IT™ Control Kits - Human are quality control tested to demonstrate that the positive and negative control antibodies are effective in performing chromatin immunoprecipitation, and that the human-specific positive control PCR primer set generates the correct size product from input DNA.

HeLa cells were grown, fixed and used to prepare chromatin as described in the ChIP-IT Express manual. ChIP reactions were then performed using 2 µg RNA pol II antibody and 2 µg negative control IgG. The immunoprecipitated DNA and the control Input DNA were then used in PCR using the GAPDH control primers (Figure 1). The reactions were cycled for 36 repetitions. The positive control GAPDH primers generated a 166 bp product (lanes 2-4).

GAPDH control primers are each supplied as a mix of both forward and reverse primers at a 2.5 pmol/µl concentration. 4 µl of GAPDH control primer mix was used per 25 µl PCR reaction with 5 µl sample or input DNA in quality control testing as shown in the example mix below.

PCR mix cocktail (20 µl added per PCR reaction to 5 µl of sample):
9.8 µl DEPC H_2O
2.5 µl 10X PCR Buffer
2.5 µl 10X PCR Loading Dye
1.0 µl dNTPs (5 mM mix)
0.2 µl *Taq* polymerase
4.0 µl GAPDH control primer mix

Reactions were cycled 36 times with the following steps per cycle:
94°C denaturing for 20 seconds
59°C annealing for 30 seconds
72°C extension for 30 seconds

Kit Components:

50 µl	RNA polII antibody
50 µl	Negative control IgG
400 µl	GAPDH primer mix
1.5 ml	10X PCR buffer
1.5 ml	10X PCR loading dye

Storage:

The ChIP-IT Control Kit - Human components are shipped on dry ice. GAPDH control primer mix should be stored at -20°C. The RNA pol II antibody should be stored at -20°C. The negative control IgG antibody should be stored at 4°C. The 10X PCR Buffer and 10X PCR Loading Dye should be stored at -20°C.

This product is guaranteed for 6 months from date of receipt under the correct storage conditions. Aliquot antibodies to avoid exposing contents to multiple freeze-thaw cycles.