

Virtual Design and Specificity Testing of GAPDH PCR Primers

Forward Primer (5' → 3'):

TCGGAGTCAACGGATTTGGT

Reverse Primer (5' → 3'):

TTCCCGTTCTCAGCCTTGAC

Melting Temperature (Tm):

- Forward: 59.32 °C
- Reverse: 59.97 °C

GC Content:

- Forward: 50%
- Reverse: 55%

Expected Product Size:

181 bp

Specificity Statement:

The primer pair is specific to GAPDH on Chromosome 12 and does not show significant off-target amplification in the human genome.