

HBG2 cDNA

Catalog Number: ATGD0361

PRODUCT INFORMATION

Catalog number

ATGD0361

Product type

cDNA

Species

Human

NCBI Accession No.

NP_000175.1

Alternative Names

HBG-T1, TNCY

mRNA Refseq

NM_000184.2

OMIM

142250

Chromosome location

11p15.5

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

444bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted Nde I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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Hemoglobin subunit gamma-2, also known as HBG2, belongs to the fetal hemoglobin subunit, which consists of two alpha chains together with two gamma chains. Increased fetal hemoglobin production in adults can ameliorate the clinical severity of sickle cell disease and beta-thalassemia major.

DATA

Sequence nucleotides

```
ATGGGTCATTTACAGAGGAGGACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGA
AACCTGGGAAGGCTCCTGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCC
ATCATGGGCAACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGAT
CTCAAGGGCACCTTTGCCCAGCTGAGTGAAGTCACTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGGGA
AATGTGCTGGTGACCGTTTTGGCAATCCATTTGGCAAAGAATTACCCCTGAGGTGCAGGCTTCCTGGCAGAAGATGGTG
ACTGGAGTGGCCAGTGCCCTGTCCTCCAGATACCACTGA
```

Transaction Sequence

```
MGHFTEEDKA TITSLWGKVN VEDAGGETLG RLLVYPWTQ RFFDSFGNLS SASAIMGNPK VKAHGKKVLT SLGDAIKHLD
DLKGTFAQLS ELHCDKLHVD PENFKLLGNV LVTVLAIHFG KEFTPEVQAS WQKMTGVAS ALSSRYH
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