

## HES6 cDNA

Catalog Number: ATGD0317

### PRODUCT INFORMATION

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**Catalog number**

ATGD0317

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_061115.2

**Alternative Names**

bHLHb41, bHLHc23, C-HAIRY1, HES-6

**mRNA Refseq**

NM\_018645.5

**OMIM**

610331

**Chromosome location**

2q37.3

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

675bp

**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 Hind III. 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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HES6 encodes a member of a subfamily of basic helix-loop-helix transcription repressors that have homology to the Drosophila enhancer of split genes. Members of this gene family regulate cell differentiation in numerous cell types. HES6 functions as a cofactor, interacting with other transcription factors through a tetrapeptide domain in its C-terminus. Alternatively spliced transcript variants encoding different isoforms have been described.

### DATA

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#### Sequence nucleotides

```
ATGGCGCCACCCGCGGCGCCTGGCCGGGACCGTGTGGGCCGTGAGGATGAGGACGGCTGGGAGACGCGAGGGGACCGC
AAGGCCCGGAAGCCCCTGGTGGAGAAGAAGCGGCGCGCGCGGATCAACGAGAGCCTGCAGGAGCTGCGGCTGCTGCTGG
CGGGCGCCGAGGTGCAGGCCAAGCTGGAGAACGCCGAAGTGCTGGAGCTGACGGTGCGGCGGGTCCAGGGTGTGCTGC
GGGGCCGGGCGCGAGCGCGAGCAGCTGCAGGCGGAAGCGAGCGAGCGCTTCGCTGCCGGCTACATCCAGTGCATGCA
CGAGGTGCACACGTTTCGTGTCCACGTGCCAGGCCATCGACGCTACCGTCGCTGCCGAGCTCCTGAACCATCTGCTCGAGTC
CATGCCGCTGCGTGAGGGCAGCAGCTTCCAGGATCTGCTGGGGGACGCCCTGGCGGGGCCACCTAGAGCCCCTGGACGG
AGTGGCTGGCCTGCGGGGGGCGCTCCGGGATCCCCAATACCCAGCCCCCGGGTCTGGGGACGACCTGTGCTCCGACCT
GGAGGAGGCCCTGAGGCTGAACTGAGTCAGGCTCCTGCTGAGGGGCCCGACTTGGTGCCCGCAGCCCTGGGCAGCCTG
ACCACAGCCCAAATTGCCCGGAGTGTCTGGAGGCCTTGGTGA
```

#### Transaction Sequence

```
MAPPAAPGRD RVGREDEDGW ETRGDRKARK PLVEKKRRAR INESLQELRL LLAGAEVQAKLENAEVLELT VRRVQGVLRG
RAREREQLQA EASERFAAGY IQCMHEVHTF VSTCQ AIDATVAAELLNHL ESMP LREGSS FQDLLGDALA GPPRAPGRSG
WPAGGAPGSP IPSPPGDLDLCS DLEEAPE AELSQAPAEG PDLVPAALGS LTTAQIARSV WRPW
```