

# HESX1 cDNA

Catalog Number: ATGD0150

## PRODUCT INFORMATION

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**Catalog number**

ATGD0150

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_003856.1

**Alternative Names**

ANF, CPHD5, RPX

**mRNA Refseq**

NM\_003865.2

**OMIM**

601802

**Chromosome location**

3p14.3

## PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

558bp

**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 BamH 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**

## HESX1 cDNA

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HESX1 encodes a conserved homeobox protein that is a transcriptional repressor in the developing forebrain and pituitary gland. Mutations in HESX1 are associated with septooptic dysplasia, HESX1-related growth hormone deficiency, and combined pituitary hormone deficiency.

### DATA

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#### Sequence nucleotides

```
ATGTCTCCCAGCCTTCAGGAAGGCGCTCAGCTCGGGGAAAACAAACCCTCAACTTGCTCCTTTTCAATTGAGAGAATCTTAG
GACTGGACCAGAAGAAAGACTGTGTTCCATTAATGAAACCCACAGGCCCTGGGCAGACACCTGCAGCTCATCAGGGAAAG
ATGGTAACTTATGTCTACATGTCCCAAATCCTCCCAGTGGGATTTTCATTCCCTAGCGTGGTGGATCACCCAATGCCAGAAGA
AAGAGCTTCGAAATATGAAAATTACTTTTTCAGCCTCAGAAAGACTGTCTTTGAAAAGAGAGTTGAGTTGGTATAGAGGCCGA
AGACCAAGAAGACTGCTTTTACTCAAACCAGATTGAAGTGTTAGAAAATGTCTTTAGAGTAAACTGCTATCCTGGTATCGATAT
TAGAGAAGACTTAGCTCAAAAATTGAATCTAGAGGAAGACAGAATCCAGATTTGGTTTCAAATCGGCGTGCAAAACTGAAA
AGGTCCCATAGAGAATCACAGTTTCTAATGGCGAAAAAAAATTTCAACACAAATCTGCTGGAATAG
```

#### Transaction Sequence

```
MSPSLQEGAQ LGENKPSTCS FSIERILGLD QKKDCVPLMK PHRPWADTCS SSGKDGNLCLHVPNPPSGIS FPSVVDHPMP
EERASKYENY FSASERLSLK RELSWYRGRR PRTAFTQNQIEVLENVFRVN CYPGIDIREL LAQKLNLEED RIQIWFQNR
AKLKRSHRES QFLMAKKNFNTNLE
```