

HAND1 cDNA

Catalog Number: ATGD0017

PRODUCT INFORMATION

Catalog number

ATGD0017

Product type

cDNA

Species

Human

NCBI Accession No.

NP_004812.1

Alternative Names

bHLHa27, eHand, Hxt, Thing1

mRNA Refseq

NM_004821.2

OMIM

602406

Chromosome location

5q33

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

648bp

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

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HAND1 belongs to the basic helix-loop-helix family of transcription factors. This protein is one of two closely related family members, the HAND proteins, which are asymmetrically expressed in the developing ventricular chambers and play an essential role in cardiac morphogenesis. Working in a complementary fashion, they function in the formation of the right ventricle and aortic arch arteries, implicating them as mediators of congenital heart disease. In addition, it has been suggested that this transcription factor may be required for early trophoblast differentiation

DATA

Sequence nucleotides

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ATGAACCTCG TGGGCAGCTA CGCACACCAT CACCACCATC ACCACCCGCA CCCTGCGCAC CCCATGCTCC
ACGAACCCTT CCTCTTCGGT CCGGCCTCGC GCTGTCATCA GGAAAGGCC TACTTCCAGA GCTGGCTGCT
GAGCCCGGCT GACGCTGCCC CGGACTTCCC TCGGGGCGGG CCGCCGCCCG CGGCCGCTGC AGCCGCCACC
GCCTATGGTC CTGACGCCAG GCCTGGGCAG AGCCCCGGGC GGCTGGAGGC GCTTGGCGGC CGTCTTGCC
GGCGGAAAGG CTCAGGACCC AAGAAGGAGC GGAGACGCAC TGAGAGCATT AACAGCGCAT TCGCGGAGTT
GCGCGAGTGC ATCCCCAACG TGCCGGCCGA CACCAAGCTC TCCAAGATCA AGACTCTGCG CCTAGCCACC
AGCTACATCG CCTACCTGAT GGACGTGCTG GCCAAGGATG CACAGTCTGG CGATCCCGAG GCCTTCAAGG
CTGAACTCAA GAAGGCGGAT GGCGGCCGTG AGAGCAAGCG GAAAGGGAG CTGCAGCAGC ACGAAGGTTT
TCCTCCTGCC CTGGGCCAG TCGAGAAGAG GATTAAAGGA CGCACC GGCCGCAGCA AGTCTGGGCG
CTGGAGTTAA ACCAGTGA
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Transaction Sequence

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MNLVGSYAHH HHHHHHPHAH PMLHEPFLFG PASRCHQERP YFQSWLLSPA DAAPDFPAGG PPPAAAAAAT AYGPDARPGQ
SPGRLEALGG RLGRRKSGP KKERRRTESI NSAFaelREC IPNVPADTKL SKIKTLRLAT SYIAYLMDVL AKDAQSGDPE
AFKAELKKAD GGRESKRKRE LQQHEGFPPA LGPVEKRIKG RTGWPQQVWA LELNQ
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