

TWIST2 cDNA

Catalog Number: ATGD0427

PRODUCT INFORMATION

Catalog number

ATGD0427

Product type

cDNA

Species

Human

NCBI Accession No.

NP_476527.1

Alternative Names

bHLHa39, DERMO1, FFDD3, SETLSS, Twist homolog 2 (Drosophila), Twist basic helix-loop-helix transcription factor 2

mRNA Refseq

NM_057179.2

OMIM

607556

Chromosome location

2q37.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

483bp

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 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)

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General Description

TWIST2 is a basic helix-loop-helix type transcription factor and shares similarity with Twist. It may inhibit osteoblast maturation and maintain cells in a preosteoblast phenotype during osteoblast development. Mutations in this gene cause focal facial dermal dysplasia 3, Setleis type.

DATA

Sequence nucleotides

```
ATGGAGGAGGGCTCCAGCTCGCCCCGTGTCCCCCGTGGACAGCCTGGGCACCAGCGAGGAGGAGCTCGAGAGGCAGCCCA
AGCGCTTCGGCCGGAAGCGGCGCTACAGCAAGAAGTCGAGCGAAGATGGCAGCCCCGACCCCGGGCAAGCGCGGCAAGAA
GGGCAGCCCCAGCGCGCAGTCCTTCGAGGAGCTGCAGAGCCAGCGCATCCTGGCCAACGTGCGCGAGCGCCAGCGCACC
CAGTCGCTCAACGAGGCCTTCGCGGCGCTGCGCAAGATCATCCCCACGCTGCCCTCTGACAAGCTGAGCAAGATCCAGAC
GCTCAAGCTGGCCGCCAGGTACATAGACTTCCTCTACCAGGTCCTGCAGAGCGACGAGATGGACAATAAGATGACCAGCTG
CAGCTACGTGGCCCACGAGCGCCTCAGCTACGCCTTCTCCGTGTGGCGCATGGAGGGCGCGTGGTCCATGTCCGCCTCCC
ACTAG
```

Transaction Sequence

```
MEEGSSSPVS PVDSLGTSEE ELERQPKRFG RKRRYSKSS EDGSPTPGKR GKKGSPSAQS FEELQSQRIL ANVRERQRTQ
SLNEAFAALR KIIPTLPSDK LSKIQTLKLA ARYIDFLYQV LQSDMDNKM TSCSYVAHER LSYAFSVWRM EGAWSMSASH
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