

Product datasheet for **RG205006**

TWIST2 (NM_057179) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TWIST2 (NM_057179) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TWIST2
Synonyms: AMS; BBR SAY; bHLHa39; DERMO1; FFDD3; SETLSS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205006 representing NM_057179
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGAGGGCTCCAGCTCGCCCGTGTCCCCGTGGACAGCCTGGGCACCAGCGAGGAGGAGCTCGAGA
 GGCAGCCCAAGCGCTTCGGCCGGAAGCGGCCTACAGCAAGAAGTCGAGCGAAGATGGCAGCCCGACCCC
 GGGCAAGCGCGCAAGAAGGGCAGCCCCAGCGCGCAGTCCTTCGAGGAGCTGCAGAGCCAGCGCATCCTG
 GCCAACGTGCGGAGCGCCAGCGCACCCAGTCGCTCAACGAGGCCTTCGCGGCGCTGCGCAAGATCATCC
 CCACGCTGCCCTCTGACAAGCTGAGCAAGATCCAGACGCTCAAGCTGGCCGCCAGGTACATAGACTTCTCT
 CTACCAGGTCTGCAGAGCGACGAGATGGACAATAAGATGACCAGCTGCAGCTACGTGGCCACGAGCGC
 CTCAGTACGCCTTCTCCGTGTGGCGCATGGAGGGCGCGTGGTCCATGTCCGCTCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205006 representing NM_057179
 Red=Cloning site Green=Tags(s)

MEEGSSSPVSPVDSLGTSEEELERQPKRFGRKRRYSKKSSEDGSPTPGKRKKGSPSAQSFEELQSQRIL
 ANVRERQRTQSLNEAFAALRKIIPTLPDKLSKIQLKLAARYIDFLYQVLQSDMDNKMNTSCSYVAHER
 LSYAFSVWRMEGAWSMSASH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_057179

ORF Size: 480 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_057179.3](#)

RefSeq Size: 1381 bp

RefSeq ORF: 483 bp

Locus ID: 117581

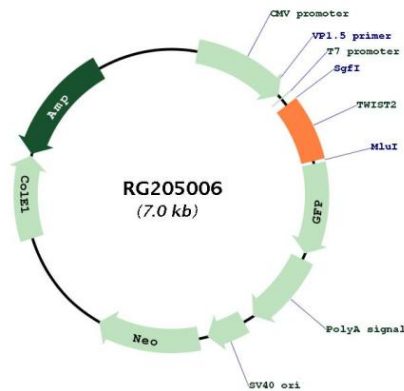
UniProt ID: [Q8WVJ9](#)

Cytogenetics: 2q37.3

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: The protein encoded by this gene is a basic helix-loop-helix type transcription factor and shares similarity with Twist. This protein may inhibit osteoblast maturation and maintain cells in a preosteoblast phenotype during osteoblast development. This gene may be upregulated in certain cancers. Mutations in this gene cause focal facial dermal dysplasia 3, Setleis type. Two transcript variants encoding the same protein have been found. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RG205006