

Product datasheet for **MC208386**

Twist2 (NM_007855) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Twist2 (NM_007855) Mouse Untagged Clone
Tag: Tag Free
Symbol: Twist2
Synonyms: bHLHa39; Dermo1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC208386 representing NM_007855
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGGGCTCCAGCTCGCCGGTGTCCCCGTGGACAGTCTGGCACCAGTGAGGAAGAGCTGGAGA
GGCAGCCCAAGCGCTTCGGCCGGAAGCGGCGCTACAGCAAGAAATCGAGCGAAGATGGCAGCCCCGACCCC
GGGTAAAGCGCGGCAAGAAGGGCAGCCCCAGCGCGCAGTCTTTCGAGGAGCTGCAGAGCCAGCGCATCCTG
GCCAACGTGCGGAGCGCCAGCGCACCCAGTCGCTCAACGAGGCCTTCGCCGCGCTGCGCAAGATCATCC
CCACGCTCCCCTCTGACAAGCTCAGCAAGATCCAGACGCTCAAGCTGGCCGCCAGGTACATAGACTTCCT
CTACCAGTTCTCCAGAGCGACGAGATGGACAATAAGATGACCAGCTGCAGCTACGTGGCTCACGAGCGT
CTCAGCTACGCCTTCTCCGTGTGGCGCATGGAGGGCGCGTGGTCCATGTCCGCCTCCACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_007855
Insert Size: 483 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_007855.3](#), [NP_031881.1](#)

RefSeq Size: 1335 bp

RefSeq ORF: 483 bp

Locus ID: 13345

UniProt ID: [Q9D030](#)

Cytogenetics: 1 D

Gene Summary: Binds to the E-box consensus sequence 5'-CANNTG-3' as a heterodimer and inhibits transcriptional activation by MYOD1, MYOG, MEF2A and MEF2C. Also represses expression of proinflammatory cytokines such as TNFA and IL1B. Involved in postnatal glycogen storage and energy metabolism. Inhibits the premature or ectopic differentiation of preosteoblast cells during osteogenesis, possibly by changing the internal signal transduction response of osteoblasts to external growth factors (By similarity).[UniProtKB/Swiss-Prot Function]