

## Product datasheet for **RG233329**

### **TWIST2 (NM\_001271893) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TWIST2 (NM\_001271893) 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:** >RG233329 representing NM\_001271893  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGAGGGCTCCAGCTCGCCGTGTCCCCGTGGACAGCCTGGGCACCAGCGAGGAGGAGCTCGAGA  
GGCAGCCCAAGCGCTTCGGCCGGAAGCGGCCTACAGCAAGAAGTCGAGCGAAGATGGCAGCCCCGACCC  
GGCAAGCGCGCAAGAAGGGCAGCCCCAGCGCGCAGTCCTTCGAGGAGCTGCAGAGCCAGCGCATCCTG  
GCCAAGTGCAGCGCAGCGCACCCAGTCGCTCAACGAGGCCTTCGCGCGCTGCGCAAGATCATCC  
CCACGCTGCCCTCTGACAAGCTGAGCAAGATCCAGACGCTCAAGCTGGCCGCCAGGTACATAGACTTCTT  
CTACCAGGTCTGCAGAGCGACGAGATGGACAATAAGATGACCAGCTGCAGCTACGTGGCCACGAGCGC  
CTCAGTACGCCTTCTCCGTGTGGCGCATGGAGGGCGCGTGGTCCATGTCCGCCTCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG233329 representing NM\_001271893  
Red=Cloning site Green=Tags(s)  
MEEGSSSPVSPVDSLGTSEEELERQPKRFGRKRRYSKKSSEDGSPTPGKRKKGSPSAQSFEELQSQRIL  
ANVRERQRTQSLNEAFAALRKIIPTLPSDKLSKIQLKLAARYIDFLYQVLQSDMDNKMNTSCSYVAHER  
LSYAFSVWRMEGAWSMSASH

**TRTRPLE** - GFP Tag - V

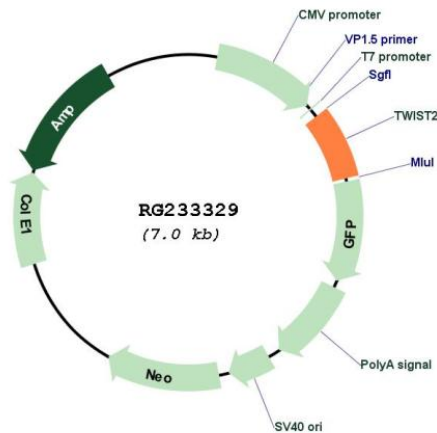
**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**

**ACCN:** NM\_001271893

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001271893.4</u>
<b>RefSeq Size:</b>	1434 bp
<b>RefSeq ORF:</b>	483 bp
<b>Locus ID:</b>	117581
<b>UniProt ID:</b>	<u>Q8WVJ9</u>
<b>Cytogenetics:</b>	2q37.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]