

## Product datasheet for **MC202531**

### Twsg1 (NM\_023053) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Twsg1 (NM_023053) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Twsg1
Synonyms:	1810013J15Rik; 9030422N06Rik; AW552143; D17Ertd403e; Tsg; Twg
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >BC004850 sequence for NM\_023053  
 CCCACGCGTCCGCGCGCGCCGGGTTCCGCGGAGCTGCTTGGAGGCTCGGCGGCCGGGAGGAGCCGGG  
 GCCACGCTTCTTGAAGCTACTGAGTGACTTCTTTGAAGAACCATGAAGTCACACTATATTGTGCTAGCT  
 CTAGCCTCCCTGACGTTCTGTGTCTCCCCGTGTCCAGAGCTGTAACAAAGCACTCTGTGCCAGCG  
 ATGTGAGCAAATGCCTCATTCAGGAGCTCTGCCAGTGCCGGCCTGGAGAAGGGAAGTCCCCCTGTGTAA  
 GGAGTGCATGCTGTGCCTCGGGCCCTGTGGGACGAGTGTGCGACTGTGTGGTAGTGAACCCCTCGG  
 AATTACAGCGACACCCCGCCACATCCAAGAGCACCGTGGAGGAGCTGCACGAGCCCATCCGTCCTGT  
 TCAGGGCGCTGACGGAGGGGACACCCAGCTGAACTGGAACATCGTCTCCTTCCCTGTGGCAGAGGAGCT  
 GTCACACCATGAAAACCTAGTCTCCTTCTAGAACTGTGAACCAGCTGCACCACAAAACGTGTCTGTT  
 CCCAGCAACAATGTCCACGCCCCCTTCCCAGCGACAAAGAGCGCATGTGCACAGTGGTTTACTTTGATG  
 ACTGCATGTCCATCCACCAGTGAAGATATCCTGCGAATCCATGGGTGCATCCAAGTATCGCTGGTTTCA  
 CAACGCCTGTGCGAGTGCATCGGTCCAGAGTGCATTGACTATGGGAGTAAAAGTCAAGTGTATGAAC  
 TGCATGTTTTAAAGAGGGGGAAGAAATGCAAAACAAAGCAGTAAGTCATGAAGTGCAGAAATCTGGT  
 TCTGGTATGCTAGGAGTGTGTTAAGTTATATGATTGTAAGTGTGCTTTTTATATCTGGTGCCTATTAGT  
 TAGGTCTTTTCCATTGGATTCAATGGAACCTTGTGACATGAGGATCGGGAGTTCAGAGGAGTCCGGGA  
 AAACCTGACATGCTGACAGAAGGTGCCGTCTTCTCCAGCTTTCAAACACTTCTCGTTTTGAACGTGAT  
 AGCACAAGCCTGGTACATGTGTGGTTCTCACCTGCCAGTGTAGAACACTAGGTCCTATAGTCACACAT  
 CTCTTAATTGTGCCTTGGCTGGCTTACCTGTTTTGTATGAGTAAATATTACAGTTTATAATTCTAACAC  
 TCACATTAAGCCATGCTGAAACTTAATTTCAAACCACTTACATTGGTTTTAGAAAAGTAAATATTTACT  
 ATATTTTACAACAGAAGAGTTTTGCCTAGGGCCAGCGAGCTGACTCAGTGGATAAAGGCGCTTGCTACCA  
 AGCCTGATAACCTGAGTCCATCCCCAGAGCCCGTACAGTGGAAAGGACAGGACCAGCTGCTGGGAGTTGT  
 CCTCTGACCTCCAGACAGGCACAGTATCATGCGTGGAGGTGTGCTTGTGTGTGCACACACATAACTA  
 ACTGTTTTAAAAATATAAACCTCTTACATGGTAAATCTAAATCTGTGCTGAGTCTCACACTGACAGTGG  
 TTTGGATGTTATGTCCTGTCCGCTGTAGTGTGGTGTGGTGAGACACAGAGTCGTCAGTCTGCTGTT  
 ATAGAAGAGTTTTGTCTACCAAGAGTGTATGGCATACTTTGGAACCTCATCAATGCAGTTGAGGATG  
 ACCTGGGTGAGGAAGTAGCCAGGTAAGAGCAGCGGGACTGTAGGCGATGCTCCATTAGACTCCGTGCAGA  
 GCAGCAGGTGCACAGCATAGCTGGTGTGCGGCTGACCAGGAGAGGGTCTGACTCCGCACCAGCAGAA  
 GCAGGGTCTCCAGCACGTGTGGGAAGCAGTGGGAGAGGGTTGAGGAAGGATGCACAGATGTGGACAG  
 AAGCATAAAAAATGTCGGGAACCTCTAGTGGGTCCACCTAAAAATCGCTTATAGTCTCTGGCTTTATTA  
 CTCTGTAAGATTACACTTGTCTTGGATATCTGAATCCAATAAGCATCATATTTAAGAAGCTCTGTTT  
 CTGAACCTCCAGGGGAAATCTGTTAATGTGTTTACTCTAGCATACTACAGAATTTTCTAGCTCTATA  
 GCTTCTTACCTAGCGTTTCCATAGTGTGAGCTTCACTACTACAGCCCTTCTAGTAATAAAAATCTCA  
 CCTTCAAGCATGAATCAAAAACAAATATCTATAATACACAGGTTCAATTTTATAGAATTGCTATTTTCTC  
 TAGTGCATATCTATAAAAGTAACTTTTTAGGAATAATCTTTATATGGGTACATATTTTGGTACATAAA  
 ATAGAAAATGTTCTTAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_023053

**Insert Size:** 669 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<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>	<a href="#">BC004850</a> , <a href="#">AAH04850</a>
<b>RefSeq Size:</b>	2350 bp
<b>RefSeq ORF:</b>	669 bp
<b>Locus ID:</b>	65960
<b>UniProt ID:</b>	<a href="#">Q9EP52</a>
<b>Cytogenetics:</b>	17 35.26 cM
<b>Gene Summary:</b>	May be involved in dorsoventral axis formation. Seems to antagonize BMP signaling by forming ternary complexes with CHRD and BMPs, thereby preventing BMPs from binding to their receptors. In addition to the anti-BMP function, also has pro-BMP activity, partly mediated by cleavage and degradation of CHRD, which releases BMPs from ternary complexes. May be an important modulator of BMP-regulated cartilage development and chondrocyte differentiation. May play a role in thymocyte development.[UniProtKB/Swiss-Prot Function]