

Product datasheet for **SC108131**

TWSG1 (NM_020648) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TWSG1 (NM_020648) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TWSG1 |
| Synonyms: | TSG |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC108131 sequence for NM_020648 edited (data generated by NextGen Sequencing) |

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ATGAAGTTACACTATGTTGCTGTGCTTACTCTAGCCATCCTGATGTTCCCTGACATGGCTT
CCAGAATCACTGAGCTGTAACAAAGCACTCTGTGCTAGTGATGTGAGCAAATGCCTCATT
CAGGAGCTCTGCCAGTGCCGGCCGGGAGAAGGCAATTGCTCCTGCTGTAAGGAGTGCATG
CTGTGTCTTGGGGCCCTTTGGGACGAGTGTGACTGTGTTGGTATGTGTAATCCTCGA
AATTATAGTGACACACCTCCAACCTCAAAGAGCACAGTGGAGGAGCTGCATGAACCGATC
CCTTCTCTCTCCGGGCACTCACAGAAGGAGATACTCAGTTGAATTGGAACATCGTTTCT
TTCCCTGTTGAGAAGAAGCTTTACATCATGAGAATCTGGTTTCATTTTTAGAACTGTG
AACCAGCCACACCACAGAATGTGTCTGTCCCCAGCAATAATGTTACGCGCCTTATTCC
AGTGACAAAGAACACATGTGTACTGTGGTTTATTTTGATGACTGCATGTCCATACATCAG
TGTAATAATATCCTGTGAGTCCATGGGAGCATCCAAATATCGCTGGTTTCATAATGCCTGC
TGGGAGTGCATTGGTCCAGAATGTATTGACTATGGTAGTAAAAGTGTCAAATGTATGAAC
TGCATGTTTTAA
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Clone variation with respect to NM_020648.5



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020648 unedited
 GTTTGNTTTTGTATACGACTCCTATAGGCGGCCCGCGATTCCGGCACGAGGGCTCGCGGGC
 GCTGCGCTGAGGGGACGGCGGGAGGCGCGGCTGGCCTCGCACTCAAAGCCGCCGACGG
 CGCCCCGGGCTCGGCCGACCCGGCGGGGATCTAGGGGTGGGCGACTTCGCGGGACCGTGG
 CGCATGTTTCTGGGAGTTACTGATCATCTTCTTTGAAGAAACATGAAGTTACACTATGT
 TGCTGTGCTTACTCTAGCCATCCTGATGTTCTGACATGGCTTCCAGAATCACTGAGCTG
 TAACAAAGCACTCTGTGCTAGTAGTGATGTGAGCAAATGCCTATTCAGGAGCTCTGCCAGTG
 CCGGCCGGGAGAAGGCAATTGCTCCTGCTGTAAGGAGTGCAATGCTGTCTTTGGGCCCCT
 TTGGGACGAGTGCTGTGACTGTGTTGGTATGTGTAATCCTCGAAATTATAGTGACACACC
 TCCAACCTCAAAGAGCACAGTGGAGGAGCTGCATGAACCGATCCCTTCTCTCTCCGGGC
 ACTCACAGAAGGAGATACTCAGTTGAATTGGAACATCGTTTTCTTCCCTGTTGCAGAAGA
 ACTTTCACATCATGAGAATCTGGTTTCATTTTTAGAACTGTGAACCAGCCACACCACCA
 GAATGTGCTGTCCCAGCAATAATGTTACGCGCCTTATCCAGTGACAAAGAACACAT
 GTGACTGTGGTTTATTTTGTGACTGCATGTCCATACATCAGTGTAAAAATCCTGTGA
 GTCATGGGAGCATCAAATATCGCTGGTTTCATAATGCCTGCTCGGAGTGCATTGGTCC
 AGAATGATTGACTATGGTAGTAAAAGTGCANATGTATGAACTGCATGNTTTANAGAAG
 ACANATGCANACCAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020648 unedited
 GGACCGCGGGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTCATTTCAATTTTTT
 ATTAATAACTTTTTTGTAAATAGGGACAACCAAGAAAATACACAATTTTATATGTTG
 TAGATCATATAAAATACAATAAACTAACTCTGGGAATGCAGAATAGATTTCAAATC
 TTAAGAAGCTTTCATAAAAATAAACTTTAAAATGTGGCTTATATTTACTGCATTTTT
 TCAGAAAATTTCTTTCTCCATTTAATGCTACCTGATTATAAATAACGGTCCAAATT
 TCTAACATCTTATCAATTTGCTTTCTGGAATTTAGAAATCACATGTCTAAATGAAGAC
 CTCTTTTTTATACCACCCTACATAAACACAGAATAGATTTTATTTAAATACCATTTGAT
 TTGGCACCCTATTGTAATAACAATTTAGTAATAATTAATGTTATGGGGGAAAAACTA
 ACAGAAAAACCTGCTAACAGCACAAGTCTTACTATAAGAAAGGATCTTTTATATATGGC
 TTTTATGATACCCACTGATTTAAACCTAGTGCTTTAAAATCTGGTTATAAAAAAGTA
 ATAACCTAATTTTTTATTAAGAAAGAAAAAGAAATTTTACCAAACTTCAATATAGAAG
 TGAATGTGCTTAGAATGGTAATAGAGGATCTAATTTTAAACAGGCTATCAACTTCTTGA
 TATTTACTTTCAATTTGAAAAAATGTTATTCAGACCTNGAATACATATAAACTGGAAN
 TGGATCTTTTAGTGAATNCTTTNCTTTCACCCTCATNAATCAGAAAAATAGCCAANTTT
 GAAGCAAAGAAGTTTACATTAAGGATGGTCTATGGAAGAATCAGATAGAAAATCATTAA
 ACATGTGGTTAGA

Restriction Sites:

NotI-NotI

ACCN:

NM_020648

Insert Size:

3860 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).

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_020648.3](#), [NP_065699.1](#)

RefSeq Size: 3693 bp

RefSeq ORF: 672 bp

Locus ID: 57045

UniProt ID: [Q9GZX9](#)

Cytogenetics: 18p11.22

Domains: Tsg

Gene Summary: 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 (By similarity). [UniProtKB/Swiss-Prot Function]