

## **Product datasheet for RG202337**

## TWSG1 (NM\_020648) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Tag: TurboGFP

Symbol: TWSG1

Synonyms: TSG

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202337 representing NM\_020648

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAAGTTACACTATGTTGCTGTGCTTACTCTAGCCATCCTGATGTTCCTGACATGGCTTCCAGAATCAC
TGAGCTGTAACAAAGCACTCTGTGCTAGTGATGTTGAGCAAATGCCTCATTCAGGAGCTCTCCCAGTAGCCG
GCCGGGAGAAGGCAATTGCTCCTGCTGTAAGGAGTGCATGCTGTGTCTTGGGGCCCCTTTGGGACGAGTGC
TGTGACTGTTTGGTTAGTGTAATCCTCGAAATTATAGTGACACACCCTCCAACTTCAAAGAGCACAGTGG
AGGAGCTGCATGAACCGATCCCTTCTCTCTCTCCCGGCACTCACAGAAGGAGATACTCAGTTGAATTGGAA
CATCGTTTCTTTCCCTGTTGCAGAAGAACTTTCACATCATGAGAATCTGGTTTCATTTTTAGAAACTGTG
AACCAGCCACACCACCAGAATGTGTCTGTCCCCAGCAATAATGTTCACGCGCCTTATTCCAGTGACAAAG
AACACTGTTGTACTGTGGTTTATTTTGATGACTGCATGTCCATACATCAGTGTAAAATATCCTGTGAGTC
CATGGGAGCATCCAAATATCGCTGGTTTCATAATGCCTGCTGCGAGTGCATTGGTCCAGAATGTATTGAC
TATGGTAGTAAAACTGTCAAATGTATGAACTGCATGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202337 representing NM\_020648

Red=Cloning site Green=Tags(s)

MKLHYVAVLTLAILMFLTWLPESLSCNKALCASDVSKCLIQELCQCRPGEGNCSCCKECMLCLGALWDEC CDCVGMCNPRNYSDTPPTSKSTVEELHEPIPSLFRALTEGDTQLNWNIVSFPVAEELSHHENLVSFLETV NQPHHQNVSVPSNNVHAPYSSDKEHMCTVVYFDDCMSIHQCKISCESMGASKYRWFHNACCECIGPECID

YGSKTVKCMNCMF

TRTRPLE - GFP Tag - V

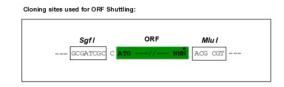


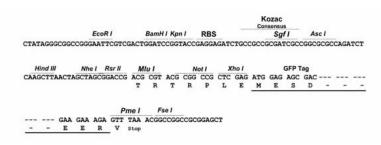
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

EU: info-de@origene.com CN: techsupport@origene.cn Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_020648

ORF Size: 669 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um

filter is required.

**RefSeq:** <u>NM\_020648.6</u>



## TWSG1 (NM\_020648) Human Tagged ORF Clone | RG202337

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

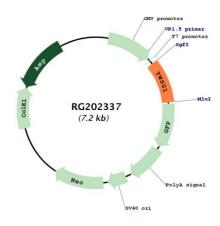
ternary complexes with CHRD and BMPs, thereby preventing BMPs from binding to their receptors. In addition to the anti-BMP function, also has pro-BMP activity, partly mediated by cleavage and degradation of CHRD, which releases BMPs from ternary complexes. May be an

important modulator of BMP-regulated cartilage development and chondrocyte

differentiation. May play a role in thymocyte development (By similarity). [UniProtKB/Swiss-Prot

Function]

## **Product images:**



Circular map for RG202337