

## Product datasheet for **RG206510**

### TSG6 (TNFAIP6) (NM\_007115) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TSG6 (TNFAIP6) (NM_007115) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TSG6
Synonyms:	TSG-6; TSG6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206510 representing NM_007115 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCATCTTAATTTACTTATTTCTCTTGCTATGGGAAGACACTCAAGGATGGGGATTCAAGGATGGAA  
TTTTTCATAACTCCATATGGCTTGAACGAGCAGCCGGTGTGTACCACAGAGAAGCACGGTCTGGCAAATA  
CAAGCTCACCTACGCAGAAGCTAAGGCGGTGTGAATTTGAAGGCGCCATCTCGCAACTTACAAGCAG  
CTAGAGGCAGCCAGAAAAATTGGATTTTCATGTCTGTGCTGCTGGATGGATGGCTAAGGGCAGAGTTGGAT  
ACCCCATTTGTGAAGCCAGGGCCCAACTGTGGATTTGAAAACTGGCATTATTGATTATGGAATCCGTCT  
CAATAGGAGTGAAAGATGGGATGCCTATTGCTACAACCCACACGCAAAGGAGTGTGGTGGCGTCTTTACA  
GATCCAAAGCAAATTTTTAAATCTCCAGGCTTCCCAAATGAGTACGAAGATAACCAAATCTGCTACTGGC  
ACATTAGACTCAAGTATGGTCAGCGTATTCACCTGAGTTTTTTAGATTTTGACCTTGAAGATGACCCAGG  
TTGCTTGGCTGATTATGTTGAAATATATGACAGTTACGATGATGTCCATGGCTTTGTGGGAAGATACTGT  
GGAGATGAGCTTCCAGATGACATCATCAGTACAGGAAATGTCATGACCTTGAAGTTTCTAAGTGATGCTT  
CAGTGACAGCTGGAGGTTTCCAAATCAAATATGTTGCAATGGATCCTGTATCCAAATCCAGTCAAGGAAA  
AAATACAAGTACTACTTCTACTGGAAATAAAAACTTTTTAGCTGGAAGATTTAGCCACTTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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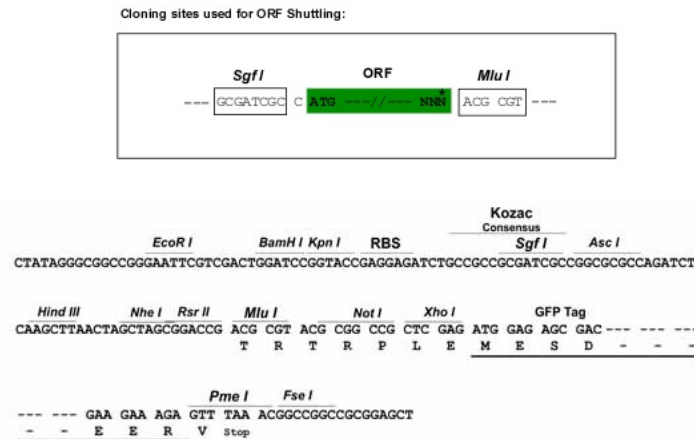
**Protein Sequence:** >RG206510 representing NM\_007115  
 Red=Cloning site Green=Tags(s)

MILIIYLFLLLWEDTQGWGFKDGFHNSIWLERAAGVYHREARSGKYKLTAEAKAVCEFEGLLATYKQ  
 LEAARKIGFHVCAAGWMAKGRVGYPIVKPGPNCGFGKTGIIDYGIRLNRSERWDAYCYNPHAKECGGVFT  
 DPKQIFKSPGFPNEYEDNQICYWHIRLKYGQRIHLSFLDFDLEDDPGCLADYVEIYDSYDDVHGFVGRYC  
 GDELDDIISTGNVMTLKFLLSDASVTAGGFQIKYVAMPVSKSSQGNKNTSTTSTGNKNFLAGRFSHL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007115

**ORF Size:** 831 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.

**RefSeq:** [NM\\_007115.4](#)

**RefSeq Size:** 1440 bp

**RefSeq ORF:** 834 bp

**Locus ID:** 7130

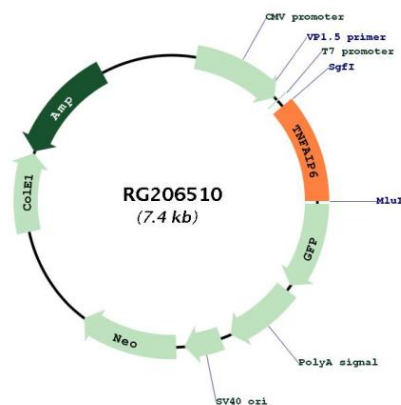
**UniProt ID:** [P98066](#)

**Cytogenetics:** 2q23.3

**Protein Families:** Druggable Genome

**Gene Summary:** The protein encoded by this gene is a secretory protein that contains a hyaluronan-binding domain, and thus is a member of the hyaluronan-binding protein family. The hyaluronan-binding domain is known to be involved in extracellular matrix stability and cell migration. This protein has been shown to form a stable complex with inter-alpha-inhibitor (I alpha I), and thus enhance the serine protease inhibitory activity of I alpha I, which is important in the protease network associated with inflammation. This gene can be induced by proinflammatory cytokines such as tumor necrosis factor alpha and interleukin-1. Enhanced levels of this protein are found in the synovial fluid of patients with osteoarthritis and rheumatoid arthritis.[provided by RefSeq, Dec 2010]

### Product images:



Circular map for RG206510