

Product datasheet for **SC116200**

TSG101 (NM_006292) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSG101 (NM_006292) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSG101
Synonyms:	TSG10; VPS23
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006292, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGTGTCGGAGAGCCAGCTCAAGAAAATGGTGTCCAAGTACAAATACAGAGACCTAACTGTACGTG
AAACTGTCAATGTTATTACTCTATACAAAAGATCTCAAACCTGTTTTGGATTGATTGTTTAAACGATGG
CAGTTCAGGGAATAATGAACCTCACTGGAACAATCCCTGTGCCTTATAGAGGTAATACATACAATATT
CCAATATGCCTATGGCTACTGGACACATACCCATATAATCCCCCTATCTGTTTTGTTAAGCCTACTAGTT
CAATGACTATTAACAGGAAAGCATGTTGATGCAAAATGGGAAGATATATCTTCCTTATCTACATGAATG
GAAACACCCACAGTCAGACTTGTGGGGCTTATTCAGGTCATGATTGTGGTATTTGGAGATGAACCTCCA
GTCTTCTCTCGTCTATTTTCGGCATCTATCCGCCATACCAGGCAACGGGGCCACCAAACTTCTCTACA
TGCCAGGCATGCCAGGTGGAATCTCTCCATACCCATCCGGATACCCTCCCAATCCAGTGGTTACCCAGG
CTGTCCCTTACCCACCTGGTGGTCCATATCTGCCACAACAAGTTCTCAGTACCCTTCTCAGCCTCTGTG
ACCACTGTTGGTCCCAGTAGGGATGGCACAATCAGCGAGGACACCATCCGAGCCTCTCTCATCTCTGCGG
TCAGTGACAAACTGAGATGGCGGATGAAGGAGGAAATGGATCGTGCCAGGCAGAGCTCAATGCCTTGAA
ACGAACAGAAGAAGACCTGAAAAAGGTCACCAGAACTGGAAGAGATGGTTACCCGTTTAGATCAAGAA
GTAGCCGAGGTTGATAAAAAACATAGAATTTTAAAAAGAAGGATGAAGAACTCAGTTCTGCTCTGGAAA
AAATGGAAAATCAGTCTGAAAACAATGATATCGATGAAGTTATCATTCCACAGCTCCCTTATACAAACA
GATCCTGAATCTGTATGCAGAAGAAAACGCTATTGAAGACACTATCTTTTACTTGGGAGAAGCCTTGAGA
AGGGGCGTGATAGACCTGGATGTCTTCTGAAGCATGTACGTCTTCTGTCCCGTAAACAGTTCAGCTGA
GGGCACTAATGCAAAAAGCAAGAAAGACTGCCGGTCTCAGTGACCTCTACTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006292 unedited
 AAGTTTGTATTTGTAACCGACTTACTATAGGCGGCCGCGCAATTCGCACGAGGCTGGGGC
 AGCCCAGCAGCGGCTGACCCTCTGCCTGCGGGGAAGGGAGTCGCCAGGCGGCCGTCATGG
 CCGTGTCCGAGAGCCAGCTCAAGAAAATGGTGTCCAAGTACAAATACAGAGACCTAACTG
 TACGTGAAACTGTCAATGTTATTACTCTATACAAATATCTCAAACCTGTTTTGGATTTCAT
 ATGTTTTTAACGATGGCAGTCCAGGGAATAATGAACCTCACTGGAACAATCCCTGTGC
 CTTATAGAGGTAATACATACAATATTCCAATATGCCTATGGCTACTGGACACATACCCAT
 ATAATCCCCTATCTGTTTTGTTAAGCCTACTAGTTCAATGACTATTAACAGGAAAGC
 ATGTTGATGCAAATGGGAAGATATATCTTCCTTATCTACATGAATGGAACACCCACAGT
 CAGACTTGTGGGGCTTATTAGGTCATGATTGTGGTATTTGGAGATGAACCTCCAGTCT
 TCTCTCGTCTATTTCCGCATCCTATCCGCCATACCAGGCAACGGGGCCACCAAATACTT
 CCTACATGCCAGGCATGCCAGGTGGAATCTCTCCATACCCATCCGGATACCCTCCCAATC
 CCAGTGGTACCAGGCTGTCTTACCACCTGGTGGTCCATATCCTGCCACAACAAGTT
 CTCAGTACCCTTCTCAGCCTCCTGTGACCACTGGTTGGTCCCAGTAGGGATGGCANCATC
 AGCGAGGACACCATCCGAGCCTCTCTCATCTCTGCGGGTCAGTGACAACAGATGGGCG
 ATGAAAGANGAAATGGATCGTGCCCCAGCAGAGCTCAATGCCTTGAACGAACAGAAGAA
 GACTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006292 unedited
 ACAGAAGCACGCNNTTCGACNANNCGAGTTCCTCCCCCTCTCTTTTTTTTATGCAAC
 AATGTCTATTTAGCAGTCCCAACATTTCAGCACAAAAAGTTTACAGAGGATAGAAAGTGCA
 TTAATAAAAGCCAGTCTTTACAAAAGAAAACAGAACATATATTATTGATTCAAATATT
 TTACACTTGAATGATAAACTGCAATAACTTATTCTGGGCACCTACTGATAAAAGGAAGAG
 AAGACTACTTTAAGAACAGCTCAACCTCCAGCTGGTATCAGAGAAGTCAGCAGAGGTCAC
 TGATACCGGTAGTCTTTCTGCTTTTTGAATTAGTGCCCTCAGCTGGAAGTGTTCACGGG
 ACAGAACACGTACATGCTTTAGGAAGACATCCAGGTCTATCACGCCCTTCTCAAGGCTT
 TTCCCAAGTAAAAGATAGTGTCTCAATAGCGTTTTCTTCTGCATACAGATCCAGGATCT
 GCCCGCATAAAGGCACCCGTGGGACTGATAAATTTCATCGATATCATTGCTTTCAGACTGAT
 TTTCTTCTTTCCCAACAACTGAGCCCTTATCCTTCTTTTCAAAGTTCTATGTTTTA
 ATCAACCTTGGGTACCTTCTGAACCAACCGGAAACATTCTTTCCAGTTTCTGAGGACTA
 TTTTTAAGTTTTTTTTGTTTTTTCACGCAATTGAGCTTTCCTGGGACAAACCACTTCTT
 CCTCCATCCCATTTAATTTGCCCTTGATTGTTAAATAAAAACCCCTCTATGGTCCCT
 CCCTGATCGCGCCTCCCTATTGGAAAAAAGGGCAAAAAGAGGCCTAAAGAGTATGAGAAC
 TCGTGGCGCCCGTCCCGGCCCCACCTGGTACGGCCCCCGCAACCCCTGTAATGGGAG
 GCCCCCGTGGTTTGGATACATCCCGTCTGCCGGACTCAAAAATTTTGTGGCCCTCC
 CCGCTCCGCGCTCCAATTTATATCCACAACACCCCGCTCCTTCCTC

Restriction Sites:

NotI-NotI

ACCN:

NM_006292

Insert Size:

1560 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_006292.2](#), [NP_006283.1](#)

RefSeq Size: 1550 bp

RefSeq ORF: 1173 bp

Locus ID: 7251

UniProt ID: [Q99816](#)

Cytogenetics: 11p15.1

Domains: UBCc

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Endocytosis

Gene Summary: The protein encoded by this gene belongs to a group of apparently inactive homologs of ubiquitin-conjugating enzymes. The gene product contains a coiled-coil domain that interacts with stathmin, a cytosolic phosphoprotein implicated in tumorigenesis. The protein may play a role in cell growth and differentiation and act as a negative growth regulator. In vitro steady-state expression of this tumor susceptibility gene appears to be important for maintenance of genomic stability and cell cycle regulation. Mutations and alternative splicing in this gene occur in high frequency in breast cancer and suggest that defects occur during breast cancer tumorigenesis and/or progression. [provided by RefSeq, Jul 2008]