

Product datasheet for **RG200275**

TSG101 (NM_006292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSG101 (NM_006292) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TSG101
Synonyms:	TSG10; VPS23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200275 representing NM_006292 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGTCGGAGAGCCAGCTCAAGAAAATGGTGTCCAAGTACAAATACAGAGACCTAACTGTACGTG
AAACTGTCAATGTTACTCTATACAAAGATCTCAAACCTGTTTTGGATTCATATGTTTTAACGATGG
CAGTCCAGGGAATAATGAACCTCACTGGAACAATCCCTGTGCCTTATAGAGGTAATACATACAATATT
CCAATATGCCTATGGCTACTGGACACATACCCATATAATCCCCCTATCTGTTTTGTTAAGCCTACTAGTT
CAATGACTATTAACAGGAAAGCATGTTGATGCAAATGGGAAGATATATCTTCCTTATCTACATGAATG
GAAACACCACAGTCAGACTTGTGGGGCTTATTCAGGTCATGATTGTGGTATTTGGAGATGAACCTCCA
GTCTTCTCTCGTCTATTTCCGGCATCCTATCCGCCATACCAAGCAACGGGGCCACCAAATACTTCTTACA
TGCCAGGCATGCCAGGTGGAATCTCTCCATACCCATCCGGATACCTCCCAATCCAGTGGTTACCCAGG
CTGTCTTACCCACCTGGTGGTCCATACCTGCCACAACAAGTCTCAGTACCCTTCTCAGCCTCTGTG
ACCACTGTTGGTCCCAGTAGGGATGGCACAATCAGCGAGGACACCATCCGAGCCTCTCATCTCTGCGG
TCAGTGACAACTGAGATGGCGGATGAAGGAGGAAATGGATCGTGCCAGGCAGAGCTCAATGCCTTGAA
ACGAACAGAAGAAGACCTGAAAAAGGGTCACCAGAACTGGAAGAGATGGTTACCCGTTTAGATCAAGAA
GTAGCCGAGGTTGATAAAAACATAGAACTTTTAAAAAGAAGGATGAAGAAGTCACTGCTCTGGAAA
AAATGGAAAATCAGTCTGAAAACAATGATATCGATGAAGTTATCATTCCCACAGCTCCCTTATACAAACA
GATCCTGAATCTGTATGCAGAAGAAAACGCTATTGAAGACACTATCCTTTACTTGGGAGAAGCCTTGAGA
AGGGCGTGATAGACCTGGATGTCTTCTGAAGCATGTACGTCTTCTGTCCCGTAAACAGTTCAGCTGA
GGGCACTAATGCAAAAAGCAAGAAAGACTGCCGGTCTCAGTGACCTCTAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200275 representing NM_006292
 Red=Cloning site Green=Tags(s)

MAVSESQLKKMVSKEYKYRDLTVRETVNVITLYKDLKPVLDYSYVFDGSSRELMNLTGTIPVPYRGNTYNI
 PICLWLLDTYPYNPPICFVKPTSSMTIKTGKHDANGKIYLPYLHEWKHPQSDLLGLIQVMIVVFGDEPP
 VFSRPISASYPYPYQATGPPNTPSYMPGMPGGISPYPSGYPPNPSGYPGCPYPPGGYPATTSSQYPSQPPV
 TTVGPRSDGTISEDITRASLISAVSDKLRWRMKEEMDRAQAEALNALKRTEEDLKKGHQKLEEMVTRLDQE
 VAEVDKNIETLLKKKDEELSSALEKMNQSENNDIDEVIIPTAPLYKQILNLYAEENAIEDTILYLGEALR
 RGVIDLVDVFLKHVRLLSRKQFQLRALMQKARKTAGLSLDLY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006292

ORF Size: 1170 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_006292.2](#), [NP_006283.1](#)

RefSeq Size: 1550 bp

RefSeq ORF: 1173 bp

Locus ID: 7251

UniProt ID: [Q99816](#)

Cytogenetics: 11p15.1

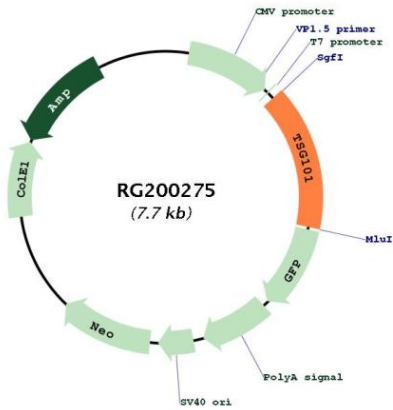
Domains: UBCc

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]

Product images:



Circular map for RG200275