

## Recombinant Human TSG101, His-tagged

**Cat. No.** TSG101-30750TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 240-390 of Human TSG101 with N terminal His tag; Predicted MWt 19 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	240-390 a.a.
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	Heart, brain, placenta, lung, liver, skeletal, kidney and pancreas.
<b>Form</b>	Lyophilised:Reconstitute with 125 µl aqua dest.

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<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	WRMKEEMDRAQAELNALKRTEEDLKKGHQKLEEMVTRL DQ EVAEVDKNIELLKKK DEELSSALEKMENQSENNDIDEV IPTAPLYKQILNLYAEENAIEDTIFYLGEALRRGVI D LDVFLKHVRLLSRKQFQLRALMQKARKTAGLS DLY
<b>Sequence Similarities</b>	Belongs to the ubiquitin-conjugating enzyme family. UEV subfamily. Contains 1 SB (steadiness box) domain. Contains 1 UEV (ubiquitin E2 variant) domain.

## GENE INFORMATION

<b>Gene Name</b>	TSG101 tumor susceptibility gene 101 [ Homo sapiens ]
<b>Official Symbol</b>	TSG101
<b>Synonyms</b>	TSG101; tumor susceptibility gene 101; TSG10, tumor susceptibility gene 10; tumor susceptibility gene 101 protein; VPS23;
<b>Gene ID</b>	7251
<b>mRNA Refseq</b>	NM_006292
<b>Protein Refseq</b>	NP_006283
<b>MIM</b>	601387
<b>Uniprot ID</b>	Q99816

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<b>Chromosome Location</b>	11p15
<b>Pathway</b>	ESCRT-I complex, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Endosomal Sorting Complex Required For Transport (ESCRT), organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem;
<b>Function</b>	DNA binding; calcium-dependent protein binding; ligand-dependent nuclear receptor transcription coactivator activity; protein binding; transcription corepressor activity;

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