

Recombinant Human TSG101, His-tagged

Cat. No. TSG101-30749TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human TSG101 fused to a 36 amino acid His-Tag at N-terminus, 20.7kDa.
Species	Human
Source	E.coli
ProteinLength	1-145 a.a.
Description	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.
Conjugation	HIS
Molecular Weight	20.700kDa inclusive of tags
Tissue specificity	Heart, brain, placenta, lung, liver, skeletal, kidney and pancreas.

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 0.02% DTT, 10% Glycerol
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMASVS ESQKKMVS K YKRDLTVRE TVNVITLYKD LKPVLD SYVF NDGSSREL MN LTGTIPVPYR GNTYNIPICL WLLDTYPYNP PICFVKPTSS MTIKTGKHVD ANGKIYLPYL HEWKHPQSDL LGLIQVMIVV FGDEPPVFSR P.
Sequence Similarities	Belongs to the ubiquitin-conjugating enzyme family. UEV subfamily. Contains 1 SB (steadiness box) domain. Contains 1 UEV (ubiquitin E2 variant) domain.

GENE INFORMATION

Gene Name	TSG101 tumor susceptibility gene 101 [Homo sapiens]
Official Symbol	TSG101
Synonyms	TSG101; tumor susceptibility gene 101; TSG10, tumor susceptibility gene 10; tumor susceptibility gene 101 protein; VPS23;
Gene ID	7251
mRNA Refseq	NM_006292
Protein Refseq	NP_006283

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MIM	601387
Uniprot ID	Q99816
Chromosome Location	11p15
Pathway	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;
Function	DNA binding; calcium-dependent protein binding; ligand-dependent nuclear receptor transcription coactivator activity; protein binding; transcription corepressor activity;

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