

Product datasheet for **SC127922**

TPSG1 (NM_012467) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TPSG1 (NM_012467) Human Untagged Clone
Tag: Tag Free
Symbol: TPSG1
Synonyms: PRSS31; TMT; trpA
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_012467 edited
 CCATGGCCCTTGGGGCCTGTGGCCTCCTGCTCCTGGCTGTGCCCGGTGTGCCCTCA
 GGACTTTGCAGCCAGGGTGTGGCCGGCCGAGTTTCGGATGCAGGCGGCCGGATCGTGG
 GGGGTACGCTGCCCCGGCCGGCCATGGCCATGGCAGGCCAGCCTCCGCCTGCGGAGGA
 TGCACGTGTGCGGCGGGTCACTGCTCAGCCCCAGTGGGTGCTCACAGCTGCCACTGCT
 TCTCCGGTCCCTGAACTCATCCGACTACCAGGTGCACCTGGGGAACTGGAGTCACTT
 TGTCTCCCACTTCTCCACCGTGAGGCAGATCATCCTGCACTCCAGCCCCCAGGACAGC
 CGGGGACCAGCGGGGACATCGCCCTGGTGGAGCTCAGTGTCCCCGTGACCCTCTCCAGCC
 GGATCCTGCCGTCTGCCTCCCGAGGCCTCAGATGACTTCTGCCCTGGGATCCGGTGT
 CGGTGACCGGCTGGGGCTATACGCGGGAGGAGAGCCTCTGCCACCCCGTACAGCCTGC
 GGGAGGTGAAAGTCTCCGTGGTGGACACAGAGACCTGCCCGGGGACTATCCCGGCCCG
 GGGCAGCATCCTCAGCCCACATGCTGTGTGCCCGGGGCCCGGGGATGCCTGCCAGG
 ACGACTCCGGGGGCCTCTGGTCTGCCAGGTGAACGGTGCCTGGGTGCAGGCTGGCATTG
 TGAGCTGGGGTGAAGGCTGCGGCCGCCCAACAGGCCGGGAGTCTACACTCGTGTCCCTG
 CCTACGTGAACTGGATCCGCCGCCACATCACAGCATCAGGGGGCTCAGAGTCTGGGTACC
 CCAGGCTCCCCCTCCTGGCTGGCTTCTCCTCCCCGGCCTCTTCCTTCTGCTAGTCTCCT
 GTGCTCTGCTGGCCAAGTGCCTGCTGCACCCATCTGCGGATGGTACTCCCTTCCCCGCC
 CTGACTGATGGCAGGAATCCAAGTGCA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_012467 unedited NNNGGTTCAAGTTCAATTTTGTATACGACTCACTATAGGCGGCCGCGTATTCGCCCTTCCA TGGCCCTTGGGGCCTGTGGCCTCCTGCTGCTCCTGGCTGTGCCCGGTGTGTCCCTCAGGA CTTTGCAGCCAGGGTGTGGCCGGCCGACAGGTTTCGGATGCAGGCGGCCGGATCGTGGGGG GTCACGCTGCCCCGGCCGGCCGATGGCCATGGCAGGCCAGCCTCCGCCTGCGGAGGATGC ACGTGTGCGGCGGGTCACTGCTCAGCCCCAGTGGGTGCTCACAGCTGCCCACTGCTTCT CCGGGTCCCTGAACTCATCCGACTACCAGGTGCACCTGGGGGAACTGGAGATCACTTTGT CTCCCCACTTCTCCACCGTGAGGCAGATCATCCTGCACTCCAGCCCTCAGGACAGCCGG GGACCAGCGGGACATCGCCCTGGTGGAGCTCAGTGTCCCGTGACCCTCTCCAGCCGGA TCCTGCCCGTCTGCCTCCCGGAGGCCTCAGATGACTTCTGCCCTGGGATCCGGTGTCTCGG TGACCGGTGGGGCTATACGCGGGAGGGAGAGCCTCTGCCACCCCGTACAGCCTGCGGG AGGTGAAAGTCTCCGTGGTGGACACAGAGACCTGCCGCCGGGACTATCCCGGCCCGGGG GCAGCATCTTACGCCGACATGCTGTGTGCCCGNGCCCGGNGATGCCTGCCAGGACG ACTCCGGGGGCCTCTGGTCTGCCAGGTGAACGGTGCCTGGGTGCAGGCTGGCATTGTGA GCTGGGGTGAGGGCTGCGGCCGCCCAACAGCCGGGAGTCTACACTCGTGTCCCTGCCTA CGTGAAGTGGATCCGCCG
Restriction Sites:	Please inquire
ACCN:	NM_012467
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:	<ol style="list-style-type: none"> 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_012467.2 , NP_036599.2
RefSeq Size:	1124 bp
RefSeq ORF:	966 bp
Locus ID:	25823
UniProt ID:	Q9NRR2
Cytogenetics:	16p13.3
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

Tryptases comprise a family of trypsin-like serine proteases, the peptidase family S1. Tryptases are enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known endogenous proteinase inhibitors. Several tryptase genes are clustered on chromosome 16p13.3. There is uncertainty regarding the number of genes in this cluster. Currently four functional genes - alpha I, beta I, beta II and gamma I - have been identified. And beta I has an allelic variant named alpha II, beta II has an allelic variant beta III, also gamma I has an allelic variant gamma II. Beta tryptases appear to be the main isoenzymes expressed in mast cells; whereas in basophils, alpha-tryptases predominant. This gene differs from other members of the tryptase gene family in that it has C-terminal hydrophobic domain, which may serve as a membrane anchor. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders. [provided by RefSeq, Jul 2008]