

## Product datasheet for **SC324545**

### TPSAB1 (NM\_003294) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TPSAB1 (NM\_003294) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TPSAB1  
**Synonyms:** TPS1; TPS2; TPSB1; TPSB2; Tryptase-2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_003294.3  
 AGAAGGAACAGGGAGCGGCCAGGATGCTGAATCTGCTGCTGCTGGCGCTGCCCGTCTGG  
 CGAGCCGCGCCTACGCGGCCCTGCCCCAGGCCAGGCCCTGCAGCGAGTGGGCATCGTTG  
 GGGGTGAGGAGGCCCGGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTCCACGGCC  
 CATACTGGATGCACTTCTGCGGGGGCTCCCTCATCCACCCCAAGTGGGTGCTGACCGCAG  
 CGCACTGCGTGGGACCGGACGTC AAGGATCTGGCCGCCCTCAGGGTGCAACTGCGGGAGC  
 AGCACCTCTACTACCAGGACCAGCTGCTGCCGGTCAGCAGGATCATCGTGACCCACAGT  
 TCTACACCGCCAGATCGGAGCGGACATCGCCCTGCTGGAGCTGGAGGAGCCGGTGAAGG  
 TCTCCAGCCACGTCACACGGTCACCCCTGCCCCCTGCCTCAGAGACCTTCCCCCGGGGA  
 TGCCGTGCTGGTCACTGGCTGGGGCGATGTGGACAATGATGAGCGCCTCCCACCGCCAT  
 TTCTCTGAAGCAGGTGAAGTCCCATAATGGAAAACCATTTGTGACGCAAAATACC  
 ACCTTGCGCCTACACGGGAGACGACGTC CGCATCGTCCGTGACGACATGCTGTGTGCCG  
 GGAACACCCGGAGGGACTCATGCCAGGGCGACTCCGGAGGGCCCTGGTGTGCAAGGTGA  
 ATGGCACCTGGCTGCAGGCGGGCGTGGTCAGCTGGGGCGAGGGCTGTGCCAGCCCAACC  
 GGCTGGCATCTACACCGTGTACCTACTACTTGGACTGGATCCACCACTATGTCCCCA  
 AAAAGCCGTGAGTCAGGCCTGGTTGGCCACCTGGGTCACTGGAGGACCAACCCCTGCTG  
 TCCAAAACCACTGCTTCTACCCAGGTGGCGACTGCCCCCACACCTTCCCTGCCCGG  
 TCCTGAGTGCCCCCTTCTGTCTAAGCCCCCTGCTCTTCTGAGCCCCCTTCCCTGTCC  
 TGAGGACCTTCCCCTCCTGAGCCCCCTTCCCTGTCTAAGCCTGACGCCTGCACTGGG  
 CCTCCGCCCCCTCCCCTGCCAGGCAGCTGGTGGTGGGCGCTAATCTCCTGAGTCTGG  
 ACCTCATTAAAGTGCATGGAAATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_003294



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003294.3</a> , <a href="#">NP_003285.2</a>
<b>RefSeq Size:</b>	1194 bp
<b>RefSeq ORF:</b>	828 bp
<b>Locus ID:</b>	7177
<b>UniProt ID:</b>	<a href="#">Q15661</a>
<b>Cytogenetics:</b>	16p13.3
<b>Domains:</b>	Tryp_SPC
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein
<b>Gene Summary:</b>	<p>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. These genes are characterized by several distinct features. They have a highly conserved 3' UTR and contain tandem repeat sequences at the 5' flank and 3' UTR which are thought to play a role in regulation of the mRNA stability. These genes have an intron immediately upstream of the initiator Met codon, which separates the site of transcription initiation from protein coding sequence. This feature is characteristic of tryptases but is unusual in other genes. The alleles of this gene exhibit an unusual amount of sequence variation, such that the alleles were once thought to represent two separate genes, alpha and beta 1. Beta tryptases appear to be the main isoenzymes expressed in mast cells; whereas in basophils, alpha tryptases predominate. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders. [provided by RefSeq, Jul 2008]</p>