OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC124210

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:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC124210 sequence for NM_003294 edited (data generated by NextGen Sequencing)

ATGCTGAATCTGCTGCTGCTGGCGCTGCCCGTCCTGGCGAGCCGCGCCTACGCGGCCCCT
GCCCCAGGCCAGGCCCTGCAGCGAGTGGGCATCGNNGGGGGTCAGGAGGCCCCCAGGAGC
AAGTGGCCCTGGCAGGTGAGCCTGAGAGTCCACGGCCCATACTGGATGCACTTCTGCGGG
GGCTCCCTCATCCACCCCCAGTGGGTGCTGACCGCAGCGCACTGCGTGGGACCGGACGTC
AAGGATCTGGCCGCCCTCAGGGTGCAACTGCGGGAGCAGCACCTCTACTACCAGGACCAG
CTGCTGCCGGTCAGCAGGATCATCGTGCACCCACAGTTCTACACCGCCCAGATCGGAGCG
GACATCGCCCTGCTGGAGCTGGAGGAGCCGGTGAAGGTCTCCAGCCACGTCCACACGGTC
ACCCTGCCCCCTGCCTCAGAGACCTTCCCCCCGGGGATGCCGTGCTGGGTCACTGGCTGG
GGCGATGTGGACAATGATGAGCGCCTCCCACCGCCATTTCCTCTGAAGCAGGTGAAGGTC
CCCATAATGGAAAACCACATTTGTGACGCAAAATACCACCTTGGCGCCTACACGGGAGAC
GACGTCCGCATCGTCCGTGACGACATGCTGTGTGCCGGGAACACCCGGAGGGACTCATGC
CAGGGCGACTCCGGAGGGCCCCTGGTGTGCAAGGTGAATGGCACCTGGCTGCAGGCGGGC
GTGGTCAGCTGGGGCGAGGGCTGTGCCCAGCCCAACCGGCCTGGCATCTACACCCGTGTC
ACCTACTACTTGGACTGGATCCACCACTATGTCCCCAAAAAGCCGTGA

Clone variation with respect to NM_003294.3
95 t=>n;96 c=>n;396 c=>g

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003294 unedited
TTGTAATACGTTTTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGATGCTTTATCTG
CTGCTGCTGGCGCTGCCCGTCCTGGCGAGCCGCGCCTACGCGGCCCCTGCCCCAGGCCAG
GCCCTGCAGCGAGTGGGCATCGTTGGGGGTCAGGAGGCCCCCAGGAGCAAGTGGCCCTGG
CAGGTGAGCCTGAGAGTCCACGGCCCATACTGGATGCACTTCTGCGGGGGCTCCCTCATC
CACCCCCAGTGGGTGCTGACCGCAGCGCACTGCGTGGGACCGGACGTCAAGGATCTGGCC
GCCCTCAGGGTGCAACTGCGGGAGCAGCACCTCTACTACCAGGACCAGCTGCTGCCGGTC
AGCAGGATCATCGTGCACCCACAGTTCTACACCGCCCAGATCGGAGCGGACATCGCCCTG
CTGGAGCTGGAGGAGCCGGTGAAGGTCTCCAGCCACGTCCACACGGTCACCCTGCCCCCT
GCCTCAGAGACCTTCCCCCCGGGGATGCCGTGCTGGGTCACTGGCTGGGGCGATGTGGAC
AATGATGAGCGCCCTCCACCGCCATTTCCTCTGAAGCAGGTGAAGGTCCCCATAATGGAA
AACCACATTTGTGACGCAAAATACCACCTTGGCGCCTACACGGGAGACGACGTCCGCATC
GTCCGTGACGACATGCTGTGTGCCCGGAACACCCCGAGGAACTCATGCCACGGCGACTCC
GGACGCCCCCTGNTGTGCAAGGTGAATGGCACCTTGCTGCCAGCGGCCGTGTCAGCTGGG
CGAGGGCTGTGCCACGCCAACCGGCCTGGCATTTCACCCGTGTCACCTACTACTTGGACT
GGATCCACCCTATGTCCCCAAAAAGCCGGGAGTCACGCTCTGGTTGGCCACCTGGGTCCT
GTAGGAACAACCCCTGTTGTACAAAACCCACTGCTTCCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003294 unedited
ACTATGAACCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGATTTCCAT
GCACTTTAATGAGGTCCAGCACTCAGGAGGATTAGCGCCCACCACCAGCTGCCTGGGCAG
GGGAGGGCCGGAGGGCCCAGTGCAGGCGTCAGGCTTAGGACAGGGAAGGGGGCTCAGGAT
GGGGAAGGGTCCTCAGGACAGGGGAAGGGGCTCAGAAGAGAGCAGGGGGCTTAGGACAGG
AAGGGGCACTCAGGACGGGGCAGGGAAGGTGTGGGGGGCAGTCGCCACCTGGGTAGGAAG
CAGTGGTGTTTTGGACAGCAGGGGTTGGTCCTCCAGTGACCCAGGTGGCCAACCCAGGCC
TGACTCACGGCTTTTTGGGGACATAGTGGTGGATCCAGTCCAAGTAGTAGGTGACACGGG
TGTAGATGCCAGGCCGGTTGGGCTGGGCACAGCCCTCGCCCCAGCTGACCACGCCCGCCT
GCAGCCAGGTGCCATTCACCTTGCACACCAGGGGCCCTCCGGAGTCGCCCTGGCATGAGT
CCCTCCGGGTGTTCCCGGCACACAGCATGTCGTCACGGACGATGCGGACGTCGTCTCCCG
TGTAGGCGCCAAGGTGGTATTTTGCGTCACAAATGTGGTTTTCCATTATGGGGACCTTCA
CCTGCTTCAGAGGAAATGGCGGTGGGAGGCGCTCATCATTGTCCACATCGCCCCAGCCAG
TGACCCAGCACGGCATCCCCGGGGGGAAGGTCTCTGNAGCANGGGGCAGGGTGACCGTGT
GGACCTGGCTGGAGACCTTTACGGNTNCTCCAGCTCAGCAGGCGATGTCCGCTCGATCTG
GCGTGTAGACTTGGGTGCACGAGATACTGCTGACCGCAGCANCTGTCCTGGTATAGAGTG
CTGCTCCCCANTTCACCCTGAGGGCGCCAGTACTTGACTCCGGTCCCGCATGCC

Restriction Sites: NotI-NotI

ACCN: NM_003294

Insert Size: 1300 bp

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:	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_003294.3, NP_003285.2
RefSeq Size:	1194 bp
RefSeq ORF:	828 bp
Locus ID:	7177
UniProt ID:	Q15661
Cytogenetics:	16p13.3
Domains:	Tryp_SPc
Protein Families:	Druggable Genome, Protease, Secreted Protein
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. 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]