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Product datasheet for SC112256

TPSB2 (NM_024164) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPSB2 (NM_024164) Human Untagged Clone
Tag:	Tag Free
Symbol:	TPSB2
Synonyms:	TPS2; tryptaseB; tryptaseC
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112256 sequence for NM_024164 edited (data generated by NextGen Sequencing)

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ATGCTGAATCTGCTGCTGCTGGCGCTGCCCGTCCTGGCGAGCCGCGCCTACGCGGCCCCT
GCCCCAGGCCAGGCCCTGCAGCGAGTGGGCATCGTTGGGGGTCAGGAGGCCCCCAGGAGC
AAGTGGCCCTGGCAGGTGAGCCTGAGAGTCCGCGACCGATACTGGATGCACTTCTGCGGG
GGCTCCCTCATCCACCCCCAGTGGGTGCTGACCGCAGCGCACTGCGTGGGACCGGACGTC
AAGGATCTGGCCGCCCTCAGGGTGCAACTGCGGGAGCAGCACCTCTACTACCAGGACCAG
CTGCTGCCGGTCAGCAGGATCATCGTGCACCCACAGTTCTACACCGCCCAGATCGGAGCG
GACATCGCCCTGCTGGAGCTGGAGGAGCCGGTGAACGTCTCCAGCCACGTCCACACGGTC
ACCCTGCCCCCTGCCTCAGAGACCTTCCCCCCGGGGATGCCGTGCTGGGTCACTGGCTGG
GGCGATGTGGACAATGATGAGCGCCTCCCACCGCCATTTCCTCTGAAGCAGGTGAAGGTC
CCCATAATGGAAAACCACATTTGTGACGCAAAATACCACCTTGGCGCCTACACGGGAGAC
GACGTCCGCATCGTCCGTGACGACATGCTGTGTGCCGGGAACACCCGGAGGGACTCATGC
CAGGGCGACTCCGGAGGGCCCCTGGTGTGCAAGGTGAATGGCACCTGGCTGCAGGCGGGC
GTGGTCAGCTGGGGCGAGGGCTGTGCCCAGCCCAACCGGCCTGGCATCTACACCCGTGTC
ACCTACTACTTGGACTGGATCCACCACTATGTCCCCAAAAAGCCGTGA

Clone variation with respect to NM_024164.5
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View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024164 unedited
GTTCAACATTTGTNATACGAACTCACTATAGGGCGGCCGCGAATTCGCACGAGGCGGCCA
GGATGCTGAATCTGCTGCTGCTGGCGCTGCCCGTCCTGGCGAGCCGCGCCTACGCGGCCC
CTGCCCCAGGCCAGGCCCTGCAGCGAGTGGGCATCGTTGGGGGTCAGGAGGCCCCCAGGA
GCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTCCGCGACCGATACTGGATGCACTTCTGCG
GGGGCTCCCTCATCCACCCCCAGTGGGTGCTGACCGCAGCGCACTGCGTGGGACCGGACG
TCAAGGATCTGGCCGCCCTCAGGGTGCAACTGCGGGAGCAGCACCTCTACTACCAGGACC
AGCTGCTGCCGGTCAGCAGGATCATCGTGCACCCACAGTTCTACACCGCCCAGATCGGAG
CGGACATCGCCCTGCTGGAGCTGGAGGAGCCGGTGAACGTCTCCAGCCACGTCCACACGG
TCGCCCTGCCCCCTGCCTCAGAGACCTTCCCCCCGGGGATGCCGTGCTGGGTCACTGGCT
GGGGCGATGTGGACAATGATGAGCGCCTCCCACCGCCATTTTCCTCTGAAGCAGGTGAAG
GTCCCCATAATGGAAAAACCACATTTGTGACGCAAAATACCACCTTTGGCGCCTACACGG
GAGACGACCGTCCGATCGTCCGTGACGACATGCTGTGTGCCCGGGACACCCGGAGGGACT
TATGCCCAGGGCGACTTCGGGAGGGCCCCCTGGTGTGCAAGGTGGATGGGCCCCTGGCTT
GCATGCCGGGCGTTGGTCACCTGGGGTCGAGAGCTTGTGCCCAAGCCCATCCGGCTCTGG
CTTTTACCCCCGTGTTCCCCTACTACTTTGGACTGGGATCCCACCAATATGTGTCCCCAA
AAAGCCGGGAAGTTCAGGCCTGGGGTGGCCCCCCCTGGTGTCACTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024164 unedited
CCGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTGATTTCCATGCACTTTAATGAGGTC
CAGCACTCAGGAGGATTAGCGCCCACCACCAGCTGCCTGGGCAGGGGAGGGCCGGAGGGC
CCGGTGCAGGCGTCAGGCTTAAGACAGGGAAGGGGGCTCAGGATGGGGAAGGGTCCTCAG
GACAGGGGAAGGGGCTCATAAGAGAGCAGGGGGCTTAGGACAGGAAGGGGCACTCAGGAC
GGGGCAGGGAAGGTGTGGGGGGCAGTCGCCACCTGGGTAGGAAGCAGTGGTGTTTTGGAC
AGGAGGGGCTGGCTCTCCAGTGACCCAGGTGGACACCCCAGGCCTGACTCACGGCTTTTT
GGGGACATAGTGGTGGATCCAGTCCAAGTAGTAGGTGACACGGGTGTAGATGCCAGGCCG
GTTGGGCTGGGCACAGCCCTCGCCCCAGCTGACCACGCCCGCCTGCAGCCAGGTGCCATT
CACCTTGCACACCATGGGCCCTCCGGAGTCCACCTGACATGAGTCCCTCCGGGTGTTTCC
GGCACACAGCATGTTGTTACGGACGATGCGGACGTTGTAATCCGTGTATGCGCCACAGTG
GTTTTCTGCGTCCCAAATGCGGTTTTCCATTATGGGGACCTTGACCTGCTTCAAAGGAAA
TGGCGGTGGGGAGGCGCCCATTATTTGTTCTCATTGGTCCCACTCAGTGACCCACCTCGG
TTTCCCCGGGGGAAAGTCTTTTGTGCCAGGGGCAAGCCCACCGTGTGGACCCGGCTGGAG
AATATTCCCGTCTTCTACAATTCTATCAGGCCTTTTATCGTTACTTCTGGCCGCGCATAC
CGGGGGGCCCCATAACCCGCGACCCGGTACCTGGACCTGGTAATAAGGGGCGCACACCAA
CTGCCCCGAGGCCGCTCAATCTTACATCCGATCACCAGGGGCTTGATATAACCACCCGGG
CGCGAAGGCCT

Restriction Sites: NotI-NotI

ACCN: NM_024164

Insert Size: 1250 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_024164.5, NP_077078.5
RefSeq Size:	1165 bp
RefSeq ORF:	828 bp
Locus ID:	64499
UniProt ID:	P20231
Cytogenetics:	16p13.3
Domains:	Tryp_SPc
Protein Families:	Druggable Genome, 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, beta II and beta III. 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]