

Product datasheet for **RC205892**

TPSAB1 (NM_003294) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TPSAB1 (NM_003294) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TPSAB1
Synonyms: TPS1; TPS2; TPSB1; TPSB2; Tryptase-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC205892 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCTGAATCTGCTGCTGCTGGCGCTGCCCGTCTGGCGAGCCGCGCCTACGCGGCCCTGCCAGGCC
 AGGCCCTGCAGCGAGTGGGCATCGTTGGGGTCTCAGGAGGCCCCAGGAGCAAGTGGCCCTGGCAGGTGAG
 CCTGAGAGTCCACGGCCATACTGGATGCACTTCTGCGGGGCTCCCTCATCCACCCCACTGGGTGCTG
 ACCGCAGCGCACTGCGTGGGACCGGACGTAAGGATCTGGCCGCCCTCAGGGTCAACTGCGGGAGCAGC
 ACCTCTACTACCAGGACCAGCTGCTGCCGGTCTCAGGAGTCACTGTCACCCACAGTTCTACACGCCCA
 GATCGGAGCGGACATCGCCCTGCTGGAGCTGGAGGAGCCGGTGAAGGTCTCCAGCCACGTCCACACGGTC
 ACCCTGCCCCCTGCCTCAGAGACCTTCCCCCGGGGATGCCGTGCTGGGTCACTGGTGGGGCGATGTGG
 ACAATGATGAGCGCCTCCACCGCCATTTCTCTGAAGCAGGTGAAGTCCCCATAATGGAAAACCAT
 TTGTGACGCAAAATACCACCTTGGCGCTACACGGGAGACGACGTCCGCATCGTCCGTGACGACATGCTG
 TGTGCCGGGAACACCGGAGGGACTCATGCCAGGGGACTCCGGAGGGCCCTGGTGTGCAAGGTGAATG
 GCACCTGGCTGCAGGCGGGCGTGGTCACTGGGGGAGGGCTGTGCCAGCCCAACCGGCTGGCATCTA
 CACCCGTGCACCTACTACTTGGACTGGATCCACCACTATGTCCCCAAAAGCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205892 protein sequence
 Red=Cloning site Green=Tags(s)

MLNLLLLLALPVLASRAYAAPAPGQALQRVGI VGGQEAPRSKWPWQVSLRVHGPYWMHFCGGSLIHPQWVL
 TAAHCVGPDPVKDLAALRVQLREQHL YYQDQLLPVSRIIVHPQFYTAQIGADIALLEELPEYKVS SHVHTV
 TLPPASETFPPGMPWCWVTGWGDVDNDR LPPFPLKQVKVPI MENHICDAKYHLGAYTGDDVRIVRDDML
 CAGNTRRDSCQDSSGGPLVCKVNGTWLQAGV VSWGEGCAQPNRPGIYTRVITYYLDWIHHYVPKPKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6628_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_003294

ORF Size: 825 bp

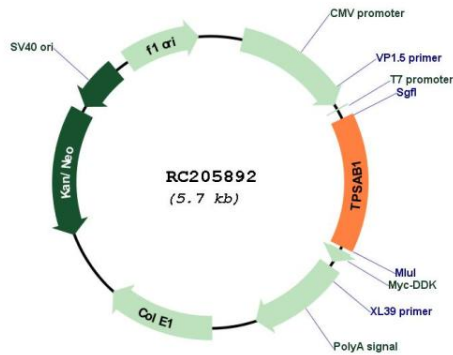
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

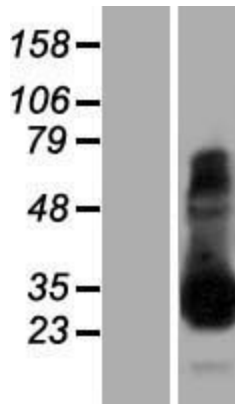
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003294.1
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
MW:	30.5 kDa
Gene Summary:	<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>

Product images:



Circular map for RC205892



Western blot validation of overexpression lysate (Cat# [LY418785]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205892 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).