

## Product datasheet for MR203662

### Tpsab1 (NM\_031187) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tpsab1 (NM_031187) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpsab1
Synonyms:	Mcp-7; Mcp7; Mcpt7; MMCP-7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203662 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTAAAGCTGCTGCTGCTCACGCTGCCCTCCTGTCCAGCCTGGTGCTGCAGCCCCGGTCCAGCTA  
TGACACGAGAAGGCATTGTGGGGGACAGGAGGCACATGGGAACAAGTGGCCCTGGCAGGTGAGCCTGCG  
TGCCAATGACACCTACTGGATGCATTTCTGCGGTGGCTCCCTCATCCACCACAGTGGGTGCTCACTGCG  
GCACACTGTGTGGACCGGATGTTGCTGACCCCAACAAGGTGAGGTACAGCTCCGTAAGCAGTACCTCT  
ATTACCATGACCACCTGATGACTGTGAGCCAGATCATCACACACCCCGACTTCTACATCGTCCAGGATGG  
GGCAGACATTGCCCTGCTGAAACTCACAAACCCTGTGAACATTTCTGACTATGTCCACCCTGTCCCCTA  
CCTCCTGCCTCAGAGACCTTCCCCTCAGGAACGTTGTGCTGGGTGACAGGCTGGGTAACATCGACAATG  
GTGTAACCTGCCGCCACCATTTCTTTGAAGGAGGTGCAAGTCCCATTATAGAAAACCACCTTTGTGA  
CTTGAAGTATCACAAAGGTCTCATCACAGGTGACAATGTCCACATTGTCCGAGATGACATGCTGTGTGCT  
GGGAATGAAGGACATGACTCCTGCCAGGGCGACTCCGGAGGACCTCTGGTCTGCAAGGTAGAAGACACCT  
GGCTGCAGGCAGGCGTGGTCAGCTGGGGTGAGGGCTGCGCACAGCCCAACAGGCCTGGCATCTACACCCG  
GGTCACCTATTACTTGGATTGGATCCACCGCTATGTCCCCAAGGACTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203662 protein sequence  
Red=Cloning site Green=Tags(s)

MLKLLLLTLPLSSLVLAAPGPAMTREGIVGGQEAHGKWPWQVSLRANDTYWMHFCGGSLIHPQWVLT  
 AHCVGPDVADPNKVRVQLRKQYL YYHDHLMTVSQIITHPDFYIVQDGADIALKL TNPVNI SDYVHPVPL  
 PPASETFPSTGLCWVTGWGNIDNGVNLPPPFPLKEVQVPIIENHLCDLKYHKGLITGDNVHIVRDDMLCA  
 GNEGHDSQCQDSSGGLVCKVEDTWLQAGVVSWGEGCAQPNRPGIYTRVTYYLDWIHRYVPKDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_031187

**ORF Size:** 822 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:**

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\\_031187.2](#), [NP\\_112464.2](#)

**RefSeq Size:** 1191 bp

**RefSeq ORF:** 822 bp

**Locus ID:** 100503895

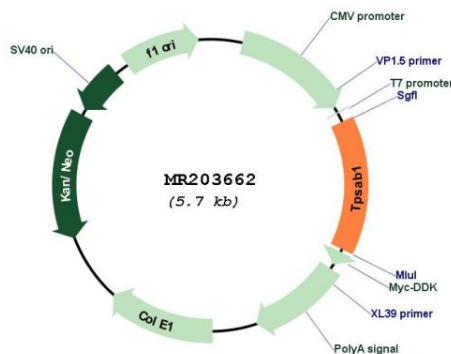
**UniProt ID:** [Q02844](#)

**Cytogenetics:** 17 12.53 cM

**MW:** 30.3 kDa

**Gene Summary:** Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. May play a role in innate immunity (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR203662