

## Product datasheet for MC223144

### Mbtps1 (NM\_019709) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mbtps1 (NM_019709) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mbtps1
Synonyms:	0610038M03Rik; AV003995; mKIAA0091; S1P; SKI-1; Ski1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223144 representing NM_019709 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAAGCTCGTCAGCACCTGGCTTCTTGTGCTGGTGGTTTTGCTCTGTGGAAACGGCACCTGGGCGACA  
GGCTGGGACGAGAGCTTTGAAAAGGCCCGTGCCCCAGCTGCTCCACCTGACTTTGAAGGTGGAATT  
CTCTTCAACTGTGGTGGAGTACGAATATATTGTGGCTTTCAACGGATACTTCACAGCCAAAGCTAGAAAC  
TCATTTATTTCAAGTGTCTGAAAAGCAGTGAAGTGAAAACCTGGAGAATAATACCTCGGAACAACCCAT  
CCAGTGACTACCTAGTGATTTTGGAGTATTCAGATAAAAAGAGAAGCAGAAGGGCGGGGCTGCTCACACT  
TGAAGATCACCCCAACATCAAGCGGGTGACACCCAGCGGAAAGTCTTTCGTTCCCTCAAGTTTGTGAA  
TCCAACCCATCGTGCCCTGTAATGAAACCCGGTGGAGCCAGAAGTGGCAGTCAACAGTCCCCTGAAAA  
GAGCCAGTCTCTCCCTGGGCTCTGGATTCTGGCATGCAACAGGAAGACATCAAGTCGGCGATTGCTGAG  
AGCCATTCCTCGCCAGGTGCGCCAGACTGCAGGCAGATGTGCTGTGGCAGATGGGATACACAGGTGCT  
AATGTCAGAGTTGCTGTTTTGATACTGGGCTCAGTGAGAAGCATCCGCATTTTAAAGAAATGTGAAGGAGA  
GAACCAACTGGACCAATGAGCGGACCTGGATGATGGGCTAGGCCATGGCACATTCGTTGCAGGTGTGAT  
TGCCAGCATGAGGGAGTGCCAAGGATTTGCTCCAGATGCAGAGCTGCACATCTTCAGGGTCTTTACCAAC  
AATCAGGTGTCTTACACATCTTGGTTTCTGGATGCCTTCAACTATGCCATCCTAAAGAAGATGGACGTTT  
TCAACCTTAGCATCGGTGGGCCCCGACTTCATGGATCATCCGTTTGTGACAAGGTGTGGGAATTAACAGC  
TAACAATGTAATTATGGTTTCTGCTATTGGCAATGATGGACCTCTCTATGGCACTCTGAATAACCTGCT  
GATCAGATGGATGTGATTGGAGTGGTGGCATTGACTTTGAAGATAACATCGCTCGCTTTTCTCCAGGG  
GAATGACTACCTGGGAATTACCAGGAGGCTATGGTCGTGTAAGCCTGACATTGTCACCTATGGTGTGG  
AGTGCGGGGTCCGGTGTGAAAGGGGGTGCCTGCACTCTCAGGGACCAGTGTGCTTCCCGAGTGGTC  
GCTGGGCGGTACCTTGTAGTAAGCACAGTACAGAAGCGGGAGCTGGTGAATCCTGCCAGTGTGAAGC  
AAGCTTTGATAGCGTCAGCCCGGAGACTTCTGGGGTCAACATGTTTCGAGCAAGGTCATGGCAAGTTGGA  
TCTGCTGCGAGCTTATCAGATCCTCAGCAGCTATAAACCCGAGGCAAGCCTGAGTCTTAGCTACATCGAC  
CTGACTGAGTGTCCCTACATGTGGCCCTACTGCTCCAGCCTATCTACTATGGAGGAATGCCAACATCG



[View online »](#)

TTAATGTCACCATCCTCAATGGCATGGGCGTCACAGGAAGAATTGTGGATAAGCCTGAGTGGCGACCCTA  
 TTTACCACAGAATGGAGACAACATTGAAGTGGCCTTCTCCTACTCCTCAGTGTGTGGCCCTGGTCAGGT  
 TACCTTGGCATCTCCATTTCTGTGACCAAGAAGGCAGCTTCTGGGAAGGCATCGCTCAGGGCCACATCA  
 TGATCACAGTGGCGTCCCAGCAGAGACAGAGTTACACAGTGGTGGGAGCACACTTCCACCGTGAAGCT  
 GCCCATCAAGGTGAAGATCATTCCCACCCTCCTCGGAGCAAGAGAGTCTCTGGGACCAGTACCACAAC  
 CTCCGCTACCCACCTGGCTACTTCCCCAGGGACAACCTTGGGATGAAGAATGACCCTTTAGACTGGAATG  
 GCGACCAGTCCACACCAACTTCAGGGACATGTACCAGCATCTGGCAGCATGGGCTACTTCGTGGAGGT  
 GCTCGGGCCCCATTACATGTTTTGACGCCACACAGTATGGCACTTTGCTGCTGGTGGACAGTGAGGAA  
 GAGTACTTCCCTGAGGAGATTGCTAAGCTGAGGAGGGATGTGGACAATGGCCTTCCCTCGTCATCTTCA  
 GTGACTGGTACAACACTTCTGTTATGAGAAAAGTGAAGTTTTATGATGAAAACACCAGGCAGTGGTGGAT  
 GCCAGACACCGGAGGAGCGAACATCCCAGCTCTGAATGAGCTGCTGTCTGTGGAACATGGGGTTCAGT  
 GACGGCTATATGAAGGGGAGTTTGTCTGGCAAACCATGACATGTAATGCGTCGGGGTGCAGCATCG  
 CCAAGTTTCCAGAAGATGGCGTCGTGATCACACAGACTTCAAGGACCAAGGATTGGAGGCTTAAAACA  
 AGAGACAGCAGTTGTGAAAAATGTTCCATTTTGGGGCTTATCAGATTCCATCTGAAGGTGGAGCCGG  
 ATCGTGTGTATGGAGACTCCAACCTGCTTGGATGACAGTACAGACAGAAGGACTGCTTTTGGCTTCTGG  
 ATGCGCTCCTTACGTACACATCCTATGGCGTGACCCTCCAGCCTCAGCCATTCAGGAAACCGGACGG  
 CCCACCTAGCGGAGCCGGCTTGGCCCTCCTGAAAGGATGGAAGGAAACCACTCCATCGGTACTCCAAA  
 GTTCTTGAAGCCCACTTGGGAGACCCGAAACCTCGGCCCTGCCAGCCTGTCCACATTTGTATGGGCCA  
 AGCCACAGCCTTTGAATGAGACGGCACCCAGTAATCTTTGAAACATCAGAAGCTGCTCTCCATTGACCT  
 GGACAAAGTAGTGTACCCAACCTTCGATCCAATCGCCCTCAAGTGAGACCTTTGCCCCGGAGAGAGT  
 GGTGCCTGGGACATTCTGGAGGGATCATGCCTGGCCGCTACAACCAGGAGGTGGGACAGACCATCCCCG  
 TCTTCGCCTTCTCGGAGCCATGGTGGCCCTGGCCTTCTTTGTGGTACAGATCAGCAAGGCCAAGAGCCG  
 GCCGAAGCGGAGGAGGCCAGGGCAAAGCGTCCACAACCTGCACAGCAGGCCACCCTGCAAGGACCCCA  
 TCAGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_019709
- Insert Size:** 3159 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\\_019709.4](#), [NP\\_062683.3](#)
- RefSeq Size:** 4393 bp

RefSeq ORF: 3159 bp

Locus ID: 56453

UniProt ID: [Q9WTZ2](#)

Cytogenetics: 8 E1

**Gene Summary:** Serine protease that catalyzes the first step in the proteolytic activation of the sterol regulatory element-binding proteins (SREBPs). Other known substrates are BDNF, GNPTAB and ATF6. Cleaves after hydrophobic or small residues, provided that Arg or Lys is in position P4. Cleaves known substrates after Arg-Ser-Val-Leu (SERBP-2), Arg-His-Leu-Leu (ATF6), Arg-Gly-Leu-Thr (BDNF) and its own propeptide after Arg-Arg-Leu-Leu. Mediates the protein cleavage of GNPTAB into subunit alpha and beta, thereby participating in biogenesis of lysosomes (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.