

Product datasheet for **MC204593**

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
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC057198
 CCGAATGGAGACCCGAGGCGTGTTCGCGGCGGAGCCCGCTTCCCGGGTCCGCCGACCCCGAGCCTG
 AGCGGACGCAGAATTCGGCCCCGCTAGTTTGTAAACATCAGCGATCTCTCTGCACAGGGTACATCC
 TATAGAAACTGACTGTCTACCTGTGGAAGCGTTATCCAGGACAGTGCTAAAGTGACTCAGTGCAGGCAGG
 CCTCTCAAGATGCTCTCACAGGTCGCTACAGAGCGGTGGATTGGGCATCCTGCTAGATTTGGGTCTGTG
 GCGCAAATGGAGTTTAGGACTCAGTGGACTCGGCCTCAATGAGAGAAGCCCTGTCCAAGATGGAGAAGA
 AGCGGAGAAAGAAATGAAAGCCTCTCTTTGGGCCAAACCGTGGGTGACCATGGGACTGAGTTTTCTTTA
 TGTTGGACAAGTCTGTAGGATGGCTGATCAGTAAGGCTGCAGCTTTTAGCCAGAACAGAAACCCACTTCT
 GATCAAGGAAGAGCCTCGTGGATTTGAATTTATGCAATTTCTGACCATATTCAGTGGACCATGAAG
 CTCGTCAGCACCTGGCTTCTGTGCTGGTGGTTTTGCTCTGTGGGAAACGGCACCTGGGCGACAGGCTGG
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 AACTGTGGTGGAGTACGAATATATTGTGGCTTTCAACGGATACTTACAGCCAAAGCTAGAAACTCATTT
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 GGTTCGGTGTGAAAGGGGCTGCCGTGCACTCTCAGGGACCAGTGTGCTTCCCAAGTGGTGGTGGG



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GCCGTCACCTTGTAGTAAGCACAGTACAGAAGCGGGAGCTGGTGAATCCTGCCAGTGTGAAGCAAGCTT
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TCTACATAACGCTACAACCTGACCAAGCAAAGACATGCTTGTACAGGCTATTTTCTATATTTATGTG
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ACTTGGCGGGATGTGGGAGATGCAAGCCTTCGCTTTATTTTTTATAACTATCAACTGCCATCATGTTTT
GTAATTTGGGGATCTTGATTTACCCGTTGTTGGTGAAGGAAATTTTCAATAAATATGCATAACCTTAAAA
AAAAAAAAAAAAAAAAAAAA
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- Restriction Sites:** RsrII-NotI
- 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: [BC057198](#), [AAH57198](#)

RefSeq Size: 4360 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.