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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC223144 representing NM_019709
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCTCGTCAGCACCTGGCTTCTTGTGCTGGTGGTTTTGCTCTGTGGGAAACGGCACCTGGGCGACA
GGCTGGGGACGAGAGCTTTGGAAAAGGCCCCGTGCCCCAGCTGCTCCCACCTGACTTTGAAGGTGGAATT
CTCTTCAACTGTGGTGGAGTACGAATATATTGTGGCTTTCAACGGATACTTCACAGCCAAAGCTAGAAAC
TCATTTATTTCAAGTGCTCTGAAAAGCAGTGAAGTGGAAAACTGGAGAATAATACCTCGGAACAACCCAT
CCAGTGACTACCCTAGTGATTTTGAGGTGATTCAGATAAAAGAGAAGCAGAAGGCGGGGCTGCTCACACT
TGAAGATCACCCCAACATCAAGCGGGTGACACCCCAGCGGAAAGTCTTTCGTTCCCTCAAGTTTGCTGAA
TCCAACCCCATCGTGCCCTGTAATGAAACCCGGTGGAGCCAGAAGTGGCAGTCATCACGTCCCCTGAAAA
GAGCCAGTCTCTCCCTGGGCTCTGGATTCTGGCATGCAACAGGAAGACATTCAAGTCGGCGATTGCTGAG
AGCCATTCCTCGCCAGGTCGCCCAGACACTGCAGGCAGATGTGCTGTGGCAGATGGGATACACAGGTGCT
AATGTCAGAGTTGCTGTTTTTGATACTGGGCTCAGTGAGAAGCATCCGCATTTTAAGAATGTGAAGGAGA
GAACCAACTGGACCAATGAGCGGACCCTGGATGATGGGCTAGGCCATGGCACATTCGTTGCAGGTGTGAT
TGCCAGCATGAGGGAGTGCCAAGGATTTGCTCCAGATGCAGAGCTGCACATCTTCAGGGTCTTTACCAAC
AATCAGGTGTCTTACACATCTTGGTTTCTGGATGCCTTCAACTATGCCATCCTAAAGAAGATGGACGTTC
TCAACCTTAGCATCGGTGGGCCCGACTTCATGGATCATCCGTTTGTTGACAAGGTGTGGGAATTAACAGC
TAACAATGTAATTATGGTTTCTGCTATTGGCAATGATGGACCTCTCTATGGCACTCTGAATAACCCTGCT
GATCAGATGGATGTGATTGGAGTGGGTGGCATTGACTTTGAAGATAACATCGCTCGCTTTTCTTCCAGGG
GAATGACTACCTGGGAATTACCAGGAGGCTATGGTCGTGTGAAGCCTGACATTGTCACCTATGGTGCTGG
AGTGCGGGGTTCCGGTGTGAAAGGGGGCTGCCGTGCACTCTCAGGGACCAGTGTCGCTTCCCCAGTGGTC
GCTGGGGCCGTCACCTTGTTAGTAAGCACAGTACAGAAGCGGGAGCTGGTGAATCCTGCCAGTGTGAAGC
AAGCTTTGATAGCGTCAGCCCGGAGACTTCCTGGGGTCAACATGTTCGAGCAAGGTCATGGCAAGTTGGA
TCTGCTGCGAGCTTATCAGATCCTCAGCAGCTATAAACCGCAGGCAAGCCTGAGTCCTAGCTACATCGAC
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CTGACTGAGTGTCCCTACATGTGGCCCTACTGCTCCCAGCCTATCTACTATGGAGGAATGCCAACAATCG
TTAATGTCACCATCCTCAATGGCATGGGCGTCACAGGAAGAATTGTGGATAAGCCTGAGTGGCGACCCTA
TTTACCACAGAATGGAGACAACATTGAAGTGGCCTTCTCCTACTCCTCAGTGTTGTGGCCCTGGTCAGGT
TACCTTGCCATCTCCATTTCTGTGACCAAGAAGGCAGCTTCCTGGGAAGGCATCGCTCAGGGCCACATCA
TGATCACAGTGGCGTCCCCAGCAGAGACAGAGTTACACAGTGGTGCGGAGCACACTTCCACCGTGAAGCT
GCCCATCAAGGTGAAGATCATTCCCACCCCTCCTCGGAGCAAGAGAGTCCTCTGGGACCAGTACCACAAC
CTCCGCTACCCACCTGGCTACTTCCCCAGGGACAACTTGCGGATGAAGAATGACCCTTTAGACTGGAATG
GCGACCACGTCCACACCAACTTCAGGGACATGTACCAGCATCTGCGCAGCATGGGCTACTTCGTGGAGGT
GCTCGGCGCCCCATTCACATGTTTTGACGCCACACAGTATGGCACTTTGCTGCTGGTGGACAGTGAGGAA
GAGTACTTCCCTGAGGAGATTGCTAAGCTGAGGAGGGATGTGGACAATGGCCTTTCCCTCGTCATCTTCA
GTGACTGGTACAACACTTCTGTTATGAGAAAAGTGAAGTTTTATGATGAAAACACCAGGCAGTGGTGGAT
GCCAGACACCGGAGGAGCGAACATCCCAGCTCTGAATGAGCTGCTGTCTGTGTGGAACATGGGGTTCAGT
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CCAAGTTTCCAGAAGATGGCGTCGTGATCACACAGACTTTCAAGGACCAAGGATTGGAGGTCTTAAAACA
AGAGACAGCAGTTGTGGAAAATGTTCCCATTTTGGGGCTTTATCAGATTCCATCTGAAGGTGGAGGCCGG
ATCGTGCTGTATGGAGACTCCAACTGCTTGGATGACAGTCACAGACAGAAGGACTGCTTTTGGCTTCTGG
ATGCGCTCCTTCAGTACACATCCTATGGCGTGACCCCTCCCAGCCTCAGCCATTCAGGGAACCGGCAGCG
CCCACCTAGCGGAGCCGGCTTGGCCCCTCCTGAAAGGATGGAAGGAAACCACCTCCATCGGTACTCCAAA
GTTCTTGAAGCCCACTTGGGAGACCCGAAACCTCGGCCCCTGCCAGCCTGTCCACATTTGTCATGGGCCA
AGCCACAGCCTTTGAATGAGACGGCACCCAGTAATCTTTGGAAACATCAGAAGCTGCTCTCCATTGACCT
GGACAAAGTAGTGTTACCCAACTTTCGATCCAATCGCCCTCAAGTGAGACCTTTGTCCCCTGGAGAGAGT
GGTGCCTGGGACATTCCTGGAGGGATCATGCCTGGCCGCTACAACCAGGAGGTGGGACAGACCATCCCCG
TCTTCGCCTTCCTCGGAGCCATGGTGGCCCTGGCCTTCTTTGTGGTACAGATCAGCAAGGCCAAGAGCCG
GCCGAAGCGGAGGAGGCCCAGGGCAAAGCGTCCACAACTTGCACAGCAGGCCCACCCTGCAAGGACCCCA
TCAGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-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

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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.

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