

Product datasheet for **MC207885**

Tmem55b (NM_001033271) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem55b (NM_001033271) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmem55b
Synonyms:	BC039161; Pip4p1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207885 representing NM_001033271 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCAGACGGAGAGCGCTCCCGCTGCTCTCCGAGGCCGGCGATGGCGGCGCTGGTGGCAACGGCT
TAGCGGGCCCGGGCGGAGCGCGACCGGGCCCGGTGGAGGCCGACGCCCTCCGCACCTCCGTACGGAGC
CGGTAACATGCCCGCCCCAGGCATTTCCCCGTTCCCTGAGGGACATCCAGCCGTGTTGCCTGGAGAG
GACCCACCCCTACTCACCTTGACTAGCCCGGATAGTGGGAGTGCCCCATGATTACCTGTCGCGTCT
GTCAGTCTCCGATCAACGTGGAAGGCAAGATGCATCAGCATGTAGTCAAATGTGGTGTCTGCAACGAAGC
CACTCCCATCAAGAATGCACCTCCAGGAAAGAAGTATGTCGATGCCCTGTAATTGTCTCCTTATCTGC
AAAGTGACTTCTCAGCGATTGCCTGCCCTCGGCCCTACTGCAAAAGAATCATCAACCTAGGGCCTGTGC
ATCCAGGACCTCTGAGTCCAGAGCCACAGCCAATGGGTGTGAGGGTCATCTGTGGACATTGCAAGAACAC
GTTTCTGTGGACAGAATTCACAGACCGAACCTTGGCACGATGCCCTCACTGCAGAAAAGTGCATCTATT
GGGAGACGATATCCTAGGAAGAGATGTATTTGCTGCTTCTTGCTTGGTTACTCTTGGCAGTCACTGCCA
CTGGCCTTGCTTTTGGTACATGGAAGCATGCACAGCAATATGGAGGGATCTACGCAGCCTGGGCATTTGT
CATTTTGTGGCTGTTCTATGTTTGGTTCGGGCCCTTTATTGGCTTGTATGAAGGTCAGCCATCCTGTCT
CAGAACTTCTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001033271
Insert Size:	855 bp



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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:	<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.
RefSeq:	NM_001033271.5 , NP_001028443.1
RefSeq Size:	1623 bp
RefSeq ORF:	855 bp
Locus ID:	219024
UniProt ID:	Q3TWL2
Cytogenetics:	14 C1
Gene Summary:	<p>Catalyzes the hydrolysis of phosphatidylinositol-4,5-bisphosphate (PtdIns-4,5-P2) to phosphatidylinositol-4-phosphate (PtdIns-4-P) (By similarity). Does not hydrolyze phosphatidylinositol 3,4,5-trisphosphate, phosphatidylinositol 3,4-bisphosphate, inositol 3,5-bisphosphate, inositol 3,4-bisphosphate, phosphatidylinositol 5-monophosphate, phosphatidylinositol 4-monophosphate and phosphatidylinositol 3-monophosphate (By similarity). Regulates lysosomal positioning by recruiting JIP4 to lysosomal membranes, thus inducing retrograde transport of lysosomes along microtubules (By similarity). Contributes to assembly of the V-ATPase complex in lipid rafts of the lysosomal membrane and to subsequent amino acid-dependent activation of mTORC1 (PubMed:29644770). May play a role in the regulation of cellular cholesterol metabolism (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>