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Product datasheet for MC202902

Tmem59 (NM_029565) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem59 (NM_029565) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmem59
Synonyms:	1110001M20Rik; 3110046P06Rik; AI256529; D4Ertd20e; MTDCF1; ORF18
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC018379 sequence for NM_029565 GCTGTGACAGAGGGGAACAAGATGGCGGCGCCAAAGGGGAAGCTTTGGGTCCAGGCCCAACTGGGGCTCC CGCCGCTGCTGCTGTTGACTATGGCGCTGGCCGGAGGCTCGGGGACTGCAGCGGCCGAAGCCTTTGACTC GGTCCTGGGAGACACAGCGTCCTGTCACCGGGCCTGTCAGCTGACCTACCCCTTGCACACCTACCCGAAG GAAGAGGAGTTATACGCATGCCAGAGAGGCTGCAGGCTGTTTTCAATTTGCCAGTTTGTGGATGATGGGC TTGATTTAAATCGGACCAAGCTGGAATGTGAATCTGCGTGCACAGAAGCATATTCCCAACCTGATGAGCA GTATGCTTGTCATCTTGGCTGCCAGGATCAGTTGCCATTTGCTGAACTGAGACAAGAACAACTCATGTCC CTGATGCCAAGAATGCATCTCCTCTTCCCTCTGACTCTGGTGAGGTCGTTCTGGAGTGACATGATGGACT CTGCACAGAGCTTCATAACCTCTTCATGGACTTTTTATCTTCAAGCCGATGACGGAAAAATAGTTATATT CCAGTCTAAGCCAGAAATTCAGTATGCACCGCAGTTGGAGCAGGAGCCTACAAACTTGAGAGAATCATCT TTAAGCAAAATGTCCTATCTGCAGATGAGAAACTCACAAGCACACAGGAACTACCTTGAAGAGGAAGAAA GCGATGGCTTTTTAAGATGTCTATCTCTTAACTCTGGATGGATTTTAACCACAACCCTTGTCCTCTCGGT GATGGTGTTGCTCTGGATCTGTTGTGCAGCTGTTGCTACAGCTGTAGAACAGTATGTTCCCCCTGAGAAG CTGAGTATCTATGGTGACTTGGAATTTATGAATGAACAAAAGCTGAGCAGATACCCAGCTCCTTCTCTTG TGATTGTTAGGTCTCAGACTGAAGAACATGAGGAGGCAGGGCCCCTGCCCACCAAGGTGAACCTTGCTCA CTCAGAAATCTAAGCTTTTTAAAAGAGTCGTGGACACATAAACTTCCATTCCTCATAGAGCTTTTTAAGA TGGTTTCATTGGACATAGGCCTTAAGAAATCACTATAAAATGCAAATAAAGTTACCAAACTCTGTGAAGA CTTTATTTGCTGTGACTTTACCTGTATTTTTCTAGTCATTTAAGATGGACATTGGGTTGTATTTTTATTT TACTAATATCTGTAGCTACTTAGTTAGTTGCATTGGTTTTGGTTTTTTTCCTCTCTTCGCCAAATTCTAT GAGCTGATCATTGTGGCCCCGCCCCTGCCATGCCCCCCGTCAGTCATCTCACTTAATAACCGAAACCTTA GGGTGTGATGCTTCTGCCCGGAAATGGCCTCCAAACTGTCCTCTGGATTATAGCAGAAATGTTATTTAAT GACACTACATTTTCAGTTGTATTGAATTGAAATCATTAAAATCTATTTGAATAATTAAAAAAAAAAAAAA A	
Restriction Sites:	RsrII-NotI
ACCN:	NM_029565
Insert Size:	972 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:	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:	BC018379, AAH18379
RefSeq Size:	1471 bp
RefSeq ORF:	972 bp
Locus ID:	56374
UniProt ID:	Q9QY73
Cytogenetics:	4 50.12 cM
Gene Summary:	Acts as a regulator of autophagy in response to S.aureus infection by promoting activation of LC3 (MAP1LC3A, MAP1LC3B or MAP1LC3C). Acts by interacting with ATG16L1, leading to promote a functional complex between LC3 and ATG16L1 and promoting LC3 lipidation and subsequent activation of autophagy. Modulates the O-glycosylation and complex N-glycosylation steps occurring during the Golgi maturation of several proteins such as APP, BACE1, SEAP or PRNP. Inhibits APP transport to the cell surface and further shedding. [UniProtKB/Swiss-Prot Function]