

Product datasheet for **RN205411**

Tmem199 (NM_001024992) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem199 (NM_001024992) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tmem199
Synonyms:	MGC109028
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN205411 representing NM_001024992 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCCTCCTTGCTTGCTGGCGAACGACTCGTTCGCGCTTTGGATCCTGGCGGAGAACTGGAACGGG
AGCAGCTGCCCCGAAAGCTGCGTGCCAGCTCGAGGCTGCTCTGGGAAGAAACACGCGGCAGTGATAA
CGCCACGGGCCCCGGCGCCTGGTTTCCTTCGCTGATCCGAGATCTGCATCAGCACCTGAGAGAAAGA
AATTCCATGCTATACCTTCATGAACTCCTAGAAGGCAGTGAAATCTACTTCCAGAGATTGTGAAGCCTC
CCCGGAATCCAGAGCTAGTTGCCCGGCTAGAGAAGATTAAGATACAGCTAGCCAATGAGGAGTATAAGCG
GATCACTCGAAACGTCACCTTGTCAGGATGCACAGTGTGGGGGACTCTCAGTGACCTAGGAAAGCAAGTG
AGGTCACTGAAGGCTCTGGTCATCACCATCTTCACTTATTGTCACAGTGGCAGCTGCCTTTGTCTGCA
CTTACCTAGGAAGCCAGTATATCTTCACAGAAATGGCCTCGAGAGTGCTGGCTGCATTGATCGTTGCCTC
GGTGGTAGGTCTGGCAGAGCTGTACGTCATGGTAAGGGCAATGGAAGGAGAACTGGGCGAGCTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001024992
Insert Size:	627 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:	<u>NM_001024992.1, NP_001020163.1</u>
RefSeq Size:	1311 bp
RefSeq ORF:	627 bp
Locus ID:	303332
UniProt ID:	<u>Q5BK13</u>
Cytogenetics:	10q25
Gene Summary:	Accessory component of the proton-transporting vacuolar (V)-ATPase protein pump involved in intracellular iron homeostasis. In aerobic conditions, required for intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation. Necessary for endolysosomal acidification and lysosomal degradation (By similarity). May be involved in Golgi homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]