

Product datasheet for **SC325206**

TMEM108 (NM_001136469) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	TMEM108
Synonyms:	CT124; RTLN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC325206 representing NM_001136469.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGAGAAGTTTACAGGCCCTCTATTGCCAACTGTTAAGTTTCTGCTGATCTTGGCACTGACCGAA
GCGCTGGCATTGGCCATCCAGGAACCATCTCCAGGGAATCTTTAGGTCCTCCCTTCAGGCACTCCC
CCGGGAACCATGGTGACAGCACCCACAGCTCTACCAGACATACTTCTGTGGTGATGCTGACCCCAAT
CCCGATGGACCCCTCACAGGCTGCAGCTCCCATGGCAACACCCGACACCCCGTGACAGGGGACCCCT
CCTACGCACACCATCTCCACCATCGCTGCGACAGTAACCGCCCCCATTCTGAAAGCTCCCTGTCCACA
GGGCCCGCTCCAGCAGCATGGCAACCACATCTCCAAGCCAGAGGGCGCCCTCGAGGGCAGGCTGCC
CCCACCATCCTGTGACAAAGCCACCGGGGCCACAGCCGCCCCACCACAGCGCCCCCGCACTACC
ACACGCAGGGCCCCCAGGCCCGAGGCTCTCCGAAAAGGGGCTGGTAATTCATACGCCCTGTCCCG
CCTGCACCTGGTGCCACTCCAGGAGTAAGAAGGACAGCGAGGACGAATCCAAGCTCCACACCTCTG
GGGCAGAAGCGGCCCTGGGAAAACTTTTCAGATCTACAAGGGCAACTTCACAGGGTCTGTGGAACCG
GAGCCCTCTACCTCACCCCGAGGCCCACTCTGGGGCTACTCCTCTTACCACAGCCCCAGACAGTG
GCTGCGACCACAGTGCCCGAGCAATACCTCATGGGCACCCACCACCTCCCTGGGGCTGCAAAGGAC
AAGCCAGGCCCTTCGACAGCAGCCAGGGGGTGGTTCTACCTTACCAGCCAAGGAGGGACACCAGAT
GCCACAGCAGCCTCAGGTGCCCTGTCAGTCCACAAGCTGCCCACTGCTTCTCAGCGCCCCACCAC
GGTGACCCACAGGATGGCCCCAGCCATAGTGACTCTTGGCTTACTGTTACCCCTGGCACCAGCAGACCT
CTGTCTACCAGCTCTGGGTCTTACGGCTGCCACGGGGCCACCCAGCTGCCTTCGATACCAAGTGTC
TCAGCCCCCTCCAGGGGATTCTCAGGGAGCATCCACAACCCACAAGCTCCAACCATCCCTCCAGG
GTCTCAGAAAGCACTATTTCTGGAGCCAAGGAGGAGACTGTGGCCACCTCACCATGACCGACGGGTG
CCAGTCTCTCTCCACAGTGGTATCCACAGCCACAGGCAATTTCTCAACCGCTGGTCCCGCGCGGG
ACCTGGAAGCCTGGGACAGCAGGGAACATCTCCCATGTGGCCGAGGGGGACAAACCGCAGCAGAGCC
ACCATCTGCCTGAGCAAGATGGATATCGCTGGGTGATCCTGGCCATCAGCGTGCCCATCTCTCTCTGC
TCTGTCTGCTGACGGTGTGCTGCATGAAGAGGAAGAAGAACCCGAGGAGAACCTGAGC
TACTGGAACAACACCATCACCATGGACTACTTCAACAGGCATGCTGTGGAGCTGCCAGGGAGATCCAG
TCCCTTGAAACCTCTGAGGACAGCTCTCAGAGCCCGCTCCCGAGCCAATGGCGACTATAGAGACACT
GGGATGGTCTTGTAAACCCCTTCTGTCAAGAAACACTGTTTGTGGGAAACGATCAAGTATCTGAGATC
TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGC

Restriction Sites:

Sgfl-MluI

ACCN:

NM_001136469

Insert Size:

1728 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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001136469.2</u>
RefSeq Size:	3843 bp
RefSeq ORF:	1728 bp
Locus ID:	66000
UniProt ID:	<u>Q6UXFI</u>
Cytogenetics:	3q22.1
Protein Families:	Druggable Genome, Transmembrane
MW:	59.9 kDa
Gene Summary:	Transmembrane protein required for proper cognitive functions. Involved in the development of dentate gyrus (DG) neuron circuitry, is necessary for AMPA receptors surface expression and proper excitatory postsynaptic currents of DG granule neurons. Regulates the organization and stability of the microtubule network of sensory neurons to allow axonal transport. Through the interaction with DST, mediates the docking of the dynein/dynactin motor complex to vesicle cargos for retrograde axonal transport. In hippocampal neurons, required for BDNF-dependent dendrite outgrowth. Cooperates with SH3GL2 and recruits the WAVE1 complex to facilitate actin-dependent BDNF:NTRK2 early endocytic trafficking and mediate signaling from early endosomes.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Both variant 1 and 2 encode the same isoform (1).