

Product datasheet for **SC321357**

TMEM108 (NM_023943) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM108 (NM_023943) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM108
Synonyms:	CT124; RTLN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_023943.1
 GGAGGGAGCCGGAGCGCTTCTCCCGAGTTGGTGATAGATTGGTGGTCATCCAACATGCAG
 AAATGAATGAGCAGTGAAAAGCAGCAGAGCCGATGGGTGATGAGGATGTAAGTGCGTTTG
 AAGGCTTCCACACCTCTACTCCAGGACAGAATCATGAATAAACTGGAGGATAAGCAGGA
 CCAGATGATACCATGAAGAGAAGTTTACAGGCCCTCTATTGCCAACTGTTAAGTTTCTG
 CTGATCTTGGCACTGACCGAAGCGCTGGCATTGTCATCCAGGAACCATCTCCAGGGAA
 TCTCTTCAGGTCCTCCCTTCAGGCACTCCCCGGGAACCATGGTGACAGCACCCACAGC
 TCTACCAGACATACTTCTGTGGTGATGCTGACCCCAATCCCGATGGACCCCTCACAG
 GCTGCAGTCCCATGGCAACACCGACACCCCGTGAGAGGGGACCCCTCTACGCACACC
 ATCTCCACCATCGCTGCGACAGTAACCGCCCCCATTCTGAAAGCTCCCTGTCCAGGG
 CCCGCTCCAGCAGCCATGGCAACACATCTCCAAGCCAGAGGGCCGCCCTCGAGGGCAG
 GCTGCCCCCACCATCTGCTGACAAAGCCACCGGGGGCCACCAGCCGCCACCACAGCG
 CCCCCCGCACTACCACACGAGGCCCCAGGCCCCAGGCTCTTCCGAAAAGGGCT
 GGTAAATTCATACGCCCTGTCCCGCTGCACCTGGTGGCCACTCCAGGAGTAAAGAAGGA
 CAGCGAGGACGAAATCCAAGCTCCACACCTCTGGGGCAGAAGCGGCCCTGGGGAAAATC
 TTTCAGATCTACAAGGGCAACTTCACAGGTCTGTGGAACCGAGCCCTTACCTCTACC
 CCCAGGACCCCACTCTGGGGCTACTCTTTCACACAGCCCCAGACAGTGGCTGCGACC
 ACAGTGCCAGCAATACCTCATGGGCACCCACCACACCTCCCTGGGGCTGCAAAGGAC
 AAGCCAGGCTTCGAGAGCAGCCAGGGGGTGGTTCTACCTTACCAGCCAAGGAGGG
 ACACCAGATGCCACAGCAGCCTCAGGTGCCCTGTGAGTCCACAAGCTGCCCCAGTGCCT
 TCTCAGCGCCCCACCAGGTGACCCACAGGATGGCCCCAGCCATAGTGACTCTTGGCTT
 ACTGTTACCCCTGGCACCAGCAGACCTCTGTCTACCAGCTCTGGGTCTTCACGGCTGCC
 ACGGGGCCACCCAGCTGCCTTCGATACCAAGTGTCTCAGCCCCCTCCAGGGGATTCTT
 CAGGGAGCATCCACAACCCCAAGCTCCAACCCATCCCTCCAGGGTCTCAGAAAGCACT
 ATTTCTGGAGCCAAGGAGGAGACTGTGGCCACCTCACCATGACCGACCGGTGCCAGT
 CCTCTCTCCACAGTGGTATCCACAGCCACAGGCAATTTCTCAACCGCTGGTCCCCGCC
 GGGACCTGGAAGCCTGGGACAGCAGGGAACATCTCCCATGTGGCCGAGGGGGACAAACCG
 CAGCACAGAGCCACCATCTGCCTGAGCAAGATGGATATCGCTGGGTGATCTGGCCATC
 AGCGTGCCCATCTCTCTGCTGTCTGCTGACGGTGTGCTGCATGAAGAGGAAGAAG
 AAGACCGCAACCCGAGAAACAACCTGAGCTACTGGAACAACACCATCACCATGGACTAC
 TTCAACAGGCATGCTGTGGAGCTGCCAGGGAGATCCAGTCCCTTGAAACCTCTGAGGAC
 CAGCTCTCAGAGCCCGCTCCCCAGCCAATGGCGACTATAGAGACACTGGGATGTCCTT
 GTTAACCCCTTCTGTCAAGAAACACTGTTTGTGGGAAACGATCAAGTATCTGAGATCTAA
 CTACAGCAGGCATCACTTTGCCATTCCGTATTTTTCGTCTCTAAATTATAAATATACAAA
 TATATATATTATAAATATAACCTTTGTGTAACCTGACTTAATGAGAAACATTTTCAGCT
 TTTTTTCTATGAATTGTCAACATCTTTTTTACAAGTGTGGTTTAAAAAAAAAAAAA
 TACAGAATGATCTGTGGCTTTATAAAATAAAGGTATTTCTAAGCAAAAAAAAAAAAAA
 AA

Restriction Sites: Please inquire

ACCN: NM_023943

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.
RefSeq:	<u>NM_023943.1, NP_076432.1</u>
RefSeq Size:	2162 bp
RefSeq ORF:	1728 bp
Locus ID:	66000
UniProt ID:	<u>Q6UXF1</u>
Cytogenetics:	3q22.1
Protein Families:	Druggable Genome, Transmembrane
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 (1) represents the longest transcript and encodes the longer isoform (1). Both variant 1 and 2 encode the same isoform.