

Product datasheet for **SC310158**

TMEM24 (C2CD2L) (NM_014807) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM24 (C2CD2L) (NM_014807) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM24
Synonyms:	DLNB23; TMEM24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310158 representing NM_014807.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATCCGGGCTGGGGCAGCGGGACGTGGGCTGGGCGGCTTGTCTGATCCTCTTCGCCGCCCTCGCTG
CTCACGGTGTTCGCCTGGCTGCTGCAATATGCCCGGGCTTGTGGCTGGCGCGGGCCCGGGGACCGG
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CATGTGACCTGCGTAGACCAATCTGAGCATACCATGGTGTGCGTTGCCAGCTCTCTGCTGAGGAGGTG
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TCACCTCCCTCAGACCCACCAGCCATGTCTCCAGGACCGCTAGATGCCCTCTCTAGTCCCACAAGTGC
CAGGAAGCAGACGAGACAACCCGTTCCGATATTTCTGAGAGGCCATCTGTGGATGATATTGAGTCGGAA
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TCCAACGCAACGGCCACGCCAGTGTCCGAAAGAAGGCCGGCAGCTTTTCTCGCCGCTTATCAAGCGC
TTTTCTTCAAATCCAACCCAAGGCCAATGGTAACCCAGCCCCAGCTTGA
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI
ACCN: NM_014807
Insert Size: 2124 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:	<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_014807.4
RefSeq Size:	3402 bp
RefSeq ORF:	2124 bp
Locus ID:	9854
UniProt ID:	O14523
Cytogenetics:	11q23.3
Protein Families:	Transmembrane
MW:	76.2 kDa
Gene Summary:	<p>Lipid-binding protein that transports phosphatidylinositol, the precursor of phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2), from its site of synthesis in the endoplasmic reticulum to the cell membrane (PubMed:28209843). It thereby maintains the pool of cell membrane phosphoinositides, which are degraded during phospholipase C (PLC) signaling (PubMed:28209843). Plays a key role in the coordination of Ca(2+) and phosphoinositide signaling: localizes to sites of contact between the endoplasmic reticulum and the cell membrane, where it tethers the two bilayers (PubMed:28209843). In response to elevation of cytosolic Ca(2+), it is phosphorylated at its C-terminus and dissociates from the cell membrane, abolishing phosphatidylinositol transport to the cell membrane (PubMed:28209843). Positively regulates insulin secretion in response to glucose: phosphatidylinositol transfer to the cell membrane allows replenishment of PI(4,5)P2 pools and calcium channel opening, priming a new population of insulin granules (PubMed:28209843).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1).</p>