OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC337263

TMEM24 (C2CD2L) (NM_001290474) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM24 (C2CD2L) (NM_001290474) Human Untagged Clone
Tag:	Tag Free
Symbol:	C2CD2L
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:

>NCBI ORF sequence for NM_001290474, the custom clone sequence may differ by one or more nucleotides

ATGGATCCGGGCTGGGGGCAGCGGGACGTGGGCTGGGCGGCCTTGCTGATCCTCTTCGCCGCCTCGCTGC
TCACGGTGTTCGCCTGGCTGCTGCAATATGCCCGGGGCTTGTGGCTGGCGCGGGCCCGCGGGGACCGGGG
CCCGGGACCCGCCTTAGCCGGGGAACCCGCGGGTTCCCTGCGGGAGCTGGGCGTGTGGCGCTCGCTGCTG
CGGCTGCGGGCGACTCGGGCTGGCGCCGCCGAGGAGCCAGGAGTCCGGGGCCTCCTGGCGTCACTCTTCG
CCTTCAAGTCTTTCCGGGAGAACTGGCAGCGGGCTTGGGTGCGAGCGCTGAACGAGCAGGCCTGCAGAAA
CGGGAGCTCCATCCAAATCGCCTTTGAGGAGGTGCCCCAACTCCCACCCAGAGCCAGCATCAGTCATGTG
ACCTGCGTAGACCAATCTGAGCATACCATGGTGCTGCGTTGCCAGCTCTCTGCTGAGGAGGTGCGGTTCC
CAGTCTCTGTGACCCAGCAGTCCCCCGCTGCCGTCTCCATGGAGACCTACCACGTCACTCTGACACTGCC
ACCAACACAGTTGGAAGTCAACCTGGAGGAAATCCCTGGTGAGGGGCTGCTCATATCCTGGGCCTTCACT
GATCGCCCAGATCTCAGCCTAACGGTGCTTCCCAAGCTTCAGGCCAGGGAGAGAGGTGAAGAACAAGTGG
AGCTCTCCACAATTGAGGAACTGATCAAGGATGCCATAGTCAGCACCCAGCCAGCCATGATGGTCAACCT
CAGGGCTTGCTCTGCCCCAGGAGGCCTGGTACCCAGTGAGAAGCCACCCATGATGCCCCAGGCTCAGCCA
GCCATCCCCAGACCTAACCGGTTATTCCTACGGCAGCTTCGGGCATCTCACTTGGGAAATGAGCTGGAAG
GCACCGAGGAACTGTGCTGTGTAGCTGAACTCGACAACCCCATGCAGCAGAAGTGGACCAAGCCCGCGAG
GGCTGGATCCGAGGTGGAGTGGACAGAAGACCTGGCACTGGATCTGGGCCCCCAGAGCCGGGAGCTGACC
CTCAAAGTGCTGAGGAGCAGCAGCTGTGGAGACACCGAACTCCTAGGCCAGGCCACACTGCCTGTGGGCT
CCCCCTCCAGACCACTGTCTCGAAGACAGTTGTGCCCACTCACCCCAGGGCCAGGGAAAGCCCTGGGACC
AGCAGCCACCATGGCAGTGGAGCTTCACTATGAGGAGGGCTCTCCCCGGAACCTGGGTACTCCCACCTCC
TCCACTCCACGCCCCAGCATCACACCTACCAAGAAGATTGAGCTTGACCGGACCATCATGCCCGATGGCA
CCATTGTCACCACAGTCACCACTGTCCAGTCCCGGCCCCGTATAGACGGCAAATTAGACTCCCCCTCCCG
CTCCCCGTCCAAGGTGGAGGTGACCGAGAAGACGACAACTGTGCTGAGTGAGAGCAGTGGCCCCAGCAAT
ACCTCCCATAGCAGCAGCCGGGACAGCCACCTTTCCAACGGCTTGGACCCTGTAGCAGAGACAGCGATTC
GCCAGCTGACAGAGCCCAGTGGGCGGGTGGCCAAGAAGACACCCACCAAGCGCAGCACTCTCATCATCTC
TGGTGTTTCCAAGGTGCCCATTGCTCAGGACGAGTTGGCGCTATCCCTGGGCTATGCGGCATCCCTGGAA
GCCTCAGTGCAGGATGATGCAGGGACCAGCGGAGGCCCCTCTTCACCTCCCTCAGACCCACCAGCCATGT
CTCCAGGACCGCTAGATGCCCTCTCTAGTCCCACAAGTGTCCAGGAAGCAGACGAGACAACCCGTTCGGA
TATTTCTGAGAGGCCATCTGTGGATGATATTGAGTCGGAAACGGGGTCCACTGGTGCCCTGGAGACCCGC
AGCCTCAAGGATCACAAAGTGAGTTTCCTGCGCAGCGGCACTAAGCTCATCTTCCGCCGGAGGCCTAGGC
AGAAGGAAGCTGGCCTGAGCCAATCACACGATGACCTCTCCAACGCAACGGCCACGCCCAGTGTCCGAAA
GAAGGCCGGCAGCTTTTCTCGCCGCCTTATCAAGCGCTTTTCCTTCAAATCCAAACCCAAGGCCAATGGT
AACCCCAGCCCCCAGCTCTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001290474

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:	NM_001290474.1, NP_001277403.1
RefSeq Size:	3399 bp
RefSeq ORF:	2121 bp
Locus ID:	9854
UniProt ID:	O14523
Cytogenetics:	11q23.3
Protein Families:	Transmembrane
Gene Summary:	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] Transcript Variant: This variant (2) uses an alternate in-frame splice site, compared to variant 1. The encoded protein (isoform 2) is shorter, compared to isoform 1.