

Product datasheet for **SC210814**

TMEM24 (C2CD2L) (NM_014807) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Symbol:	TMEM24
Synonyms:	DLNB23; TMEM24
Mammalian Cell	Neomycin
Selection:	
Vector:	pMirTarget (PSI00062)
ACCN:	NM_014807
Insert Size:	2000 bp



Insert Sequence:

>SC210814 3'UTR clone of NM_014807

The sequence shown below is from the reference sequence of NM_014807. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
GCCAATGGTAACCCAGCCCCAGCTCTGAGGACCCAGCTCTGAAAGGGCACGAGTTCTCTCAGCCCAT
TCCCCACCTCCCCTTCCATACCCCTTCTGGATCTCCAGTGCCTGGGCCAGGAAAGCCCTCTGGGTTC
GGGAAGCCCCGTCCACCCTGGGCCATGGGGCCGGTTGGAAGGATACTTGAACGGGAAGCACATGAGAG
GTGGGCACCCGGTGCCGAGGACATGGACGAGGACTGGTGGCTGGGAGGGAGAGGAGGCCCTGTCCGG
CATGTGTGGGTATTCCCCAGAAGCATTGGCTCCTGCTGAGCCTGGTCCCTGAGCGGAGTCCCAGGGTG
CTCAGCTCTTCAGCTGACCCCTTCTCCCTTATTATTCTCTTTCTATTATATGTGTGGCTTAGGACC
CTCCGTGAACAGATGATAGAGGGCATCTCTCCAGGTGACCCTTCTTTCTGTCCCAGGAGGGTGGGTA
ATTCCCTTTGGGATGGGCTCCACACCTCCCTCAGTCCCACTCAGACCAGCAGTGTCTGCCTC
TGAGAAATGTTGGCAGCTCACAGAGAGCAGGGCCGGCCGGATGGGGGGCAGTACTCCCCACCTTCTCT
GCCTCCCCTCCTGCTCCTCATCCCTCCCTCCCCTTTATTACCGTTTTTGTACTTGATGCCTTCTCTG
TGAGCAGTGGCTCTGTGGGAAGGAGGGAGCCGGAGCCTGGTGGGAAGCCTTCCCCAGAGAGATGGCTT
TAGGGGCTTTATTTAAAGACTGTGATGATGGAGCCACGCAAGGCTGCACCTCTGTGTGGGAGACGA
TGATGATGTCCATTGCTGTGTGATGGCTTGAATTTAATTTATTAAGTCAAATTGGAGTTTATAAACT
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ACAGGGGCCCGGATAATGAGGTTGGGTAGATGACACACATTGTGGATCTGCTAAGAAGTCTCTGCAGGG
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TCAATCAACTAGTACAGGTTAGTCTTCATTCCCCTTTCTGGAACAGGCTGCTCCTTCTAGGATGTAATG
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GTGTGACCTTGGGCAAGTTATGTAACCTCTAAGTGCCTCAGTTTTCTCATCTGTAATAATGGGAACCTCA
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AAGAAACTGGGAGGGGGAAGTCTTAGAAGTGTTCAACATAATAAAGCTCTCTCATTCTGAAATGTGG
GCAAAATTCAGGGATTGATAGATCCTAGCAAACTGTGTCCCTGGTTCCTGCTTGAGATCTTATACAG
GACTTGAACCAAGTAAGCTGTACAGGATATTGGGCAGAAATGCAGGACCAGGAAGCAAGAAAAGTGAAGT
CTGCCACAGACAAACCAAGTATCTTGGCAGGCAACTTCTCCTTTGGGACCTCAGTTTCTCTCATATC
TAAATAAGGGTGACCTGGATAAACATTCAAGTCACTTCCAGCCTTGACATTCTATGACTACCTATATC
TCAGGGTGTGTTAGGGACATGCCTTTGGGTAGATAGCATGTGGAATTTGTTACTATTCCCCATGCTCCT
GTCCACACTACTACCAAAATAGAGATATCCGGGAAGAATGGAGGGTATAGATTTTTTTTTTCAATTAG
ATAATTTAGTTTTATATTTGGGGGACAAGTGCAGGTTTCTTACATGCATATATTGCATGCATAGAG
GTGAAGTCTGGGCTTTTTTGTAGTGTGCGCATCGCCCAAATAGTGAACATCATACCAATAGGTAGTTT
ACGCGTAAGCGGCCGCGCATCTAGATTGGAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
    
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Restriction Sites:

SgfI-MluI

OTI Disclaimer:

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components:

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

Note:

Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_014807.5

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]

Locus ID: 9854

MW: 74.1