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Product datasheet for SC201316

TMEM111 (EMC3) (NM_018447) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	TMEM111 (EMC3) (NM_018447) Human 3' UTR Clone
Symbol:	TMEM111
Synonyms:	POB; TMEM111
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_018447
Insert Size:	1417 bp

Insert Sequence:

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>SC201316 3’UTR clone of NM_018447
The sequence shown below is from the reference sequence of NM_018447. The complete
sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AAAAAGGAATTACAGACCTCTATTTTTTGAAGACCGAGCAGGGATTAGCTGTGTCAGGAACTTGGAGTT
GCACTTAACCTTGTAACTTTGTTTGGAGCTGGCACCTCTTGAAATAAAAAGGAGGATGCACGAGCTGGC
AGGCATGCAGCAAGGCTTGTTCTTGTCTGGGCTGGGTTCCCCTTTATGTTTGAAACTAGAGGAAATAGG
AGTATGCTGGGCAACTTGTTATTTTTAAAATGTTGTAAATGTTCCTTCTGGTGACTCTAGTAATGAAAG
TCAGAGAAAGGGGGAAACCTCAGGCTACTGATAATATATAAAATCTTGGCCAGGCGCAGTGGCTCACGC
CTGTAATCCCAGGATTTTGGGAGGCTGAGGCGGGTGGGTCACGAGATCAGGAGTTCAAGATCAGCCTGG
CCAAGATGGTGAAACCCCATCTCTACTAAAAATACAAAAAAAAATTAGCCGGGCGTGGTGGTGGGCACC
TGTAATCCCAGCTACTTGGGAGGCTGAGGCAGAGAACTGCTTAAACCTAGGAGGCGGAGGATGCAGTGA
GCTGACATCGTGCCACTGCGCTCCAGCCTGGGCGACAGAGCAAAACTCCATCTGAAAAAAAAAAAAAAA
TATATATATATATATATATATATCTATCTTAGCAGAAGCCCAGTCTTCGAAGGAAGCATTGTTAATTAT
AGCTAATGATTATGTGCAGTCAGCCTGACATCTAGCCACAGTAAACTCCTGTTTTCTTGGGATCCAAAC
ACCCTGTGTTTTACCATTAGTTTTGTTAGTATTGTTAACTTTCTTTACACAAGTAAACCATTTCCACTA
CCAAAGGTTTAGAAACTATGGATGAACAAAATGAATCTCCCTGTTCATTTTGAGCCTACATAGACATAG
AGACCAAATATGTCAAAACCTTATTCAAATAAACTCTCTTCAGAGTGAATACCCAGGGTCAGGACAGAC
TCAGCAAACCTTCTATATCACTTAATTCTGCCCAGTGAAAATCAGTGACCCTGAGGCACTGCCAGATTC
TAAAGTGCCTTTGGGATCATCAGAGACTGTCTATAAATAATGCAAAATCTTGATCTGGATGTCAGTGTA
TCAAATCTTATCAAATCCATTGACAAATCAGTGGTGCTATACTGGAAATGGCTACTCCTTTGGATGAAG
GACCTCATTTCCCAGTTGCTTGGAACAAAAGAGAATTTACATATTGCTGTAAGAAGGGAGAGACGGCAG
TTGTTGGTAGACACACAGATAAGGGTGCCCAAGAATAATTCTGTCTGGATTAAAGGTCCCAGGGAAGTG
ACGGTGCCATTTCTGTACCAAGAGGTGAATATAATTTGCATGTTGAGTGCAGTAATTAAGAACAAACGA
CTCGACTCCACAAATTAAACCGTCCTGTTTTCTCTTC
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
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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.

RefSeq: NM_018447.4

Summary:	Part of the endoplasmic reticulum membrane protein complex (EMC) that enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed:30415835, PubMed:29809151, PubMed:29242231, PubMed:32459176, PubMed:32439656). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:30415835, PubMed:29809151, PubMed:29242231). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices (PubMed:30415835, PubMed:29809151). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:29809151, PubMed:29242231). By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N-terminus in the lumen of the ER, controls the topology of multi-pass membrane proteins like the G protein-coupled receptors (PubMed:30415835). By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes (Probable). [UniProtKB/Swiss-Prot Function]
Locus ID:	55831
MW:	54.2