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Product datasheet for MC200840

Tmem30a (NM_133718) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem30a (NM_133718) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmem30a
Synonyms:	2010200I23Rik; AW540225; Cdc50a; D9Wsu20e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC018367 sequence for NM_133718

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CGGACGCGTGGGCGGCACGCAAGTCCCCTGGGCGGCCCAGCTGGACGTGGCCGAGCCGAAGCCCGGGGGC
CGATGGCGATGAACTATAGCGCGAAGGATGAGGTGGACGGCGGGCCCGCGGGTCCTCCCGGGGGCGCCGC
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TTTCTTCTCATTTGAGTAAAATGTTGCATTCTGAAGTCCCATGCTACCTGAAGTTGCATTTGGAGTCCCA
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TGAACAAAATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_133718

Insert Size: 1095 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).

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: BC018367, AAH18367

RefSeq Size: 3555 bp

RefSeq ORF: 1095 bp

Locus ID:	69981
UniProt ID:	Q8VEK0
Cytogenetics:	9 43.82 cM
Gene Summary:	Accessory component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids. Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. The beta subunit may assist in binding of the phospholipid substrate. Required for the proper folding, assembly and ER to Golgi exit of the ATP8A2:TMEM30A flippase complex. ATP8A2:TMEM30A may be involved in regulation of neurite outgrowth, and, reconstituted to liposomes, predomiminantly transports phosphatidylserine (PS) and to a lesser extent phosphatidylethanolamine (PE). The ATP8A1:TMEM30A flippase complex seems to play a role in regulation of cell migration probably involving flippase-mediated translocation of phosphatidylethanolamine (PE) at the plasma membrane. Required for the formation of the ATP8A2, ATP8B1 and ATP8B2 P-type ATPAse intermediate phosphoenzymes. Involved in uptake of platelet-activating factor (PAF). Can also mediate the export of alpha subunits ATP8A1, ATP8B1, ATP8B2, ATP8B4, ATP10A, ATP10B, ATP10D, ATP11A, ATP11B and ATP11C from the ER to other membrane localizations. [UniProtKB/Swiss-Prot Function]