

Product datasheet for RC208685

TMEM120A (NM_031925) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM120A (NM_031925) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM120A
Synonyms:	NET29; TMPIT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208685 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCAGCCCCCGCCCCGGGCCGCTGGGCGACTGCCTGCGGGACTGGGAGGATCTACAGCAGGACTTCC
 AGAACATCCAGGAGACCATCGGCTCTACCGCTGAAGCTGGAGGAGCTGACCAAACTTCAGAACAAATTG
 CACCAGCTCCATCAGCGGCAGAGAAGCGGCTCCAGGAGCTGGCCCTCGCCCTGAAGAAATGCAAACCC
 TCCCTCCCAGCAGAGGCCGAGGGGGCCGCACAGGAGCTGGAGAACCAGATGAAAGAGCGCCAAGGCCTCT
 TCTTTGACATGGAGGCCTATTTGCCTAAGAAGAATGGATTGTACCTGAGCCTGGTTCTGGGGAACGTCAA
 CGTCACGCTCCTGAGCAAGCAGGCTAAGTTTGCCTACAAGGACGAGTATGAGAAGTTCAAGCTCTACCTC
 ACCATCATCCTCATCCTCATCTCCTTCACTTGCCGCTTCTGCTCAACTCCAGGGTGACAGATGCTGCCT
 TCAACTTCCTGCTGGTCTGGTACTACTGCACCCTGACCATCCGGGAGAGCATCCTCATCAACAACGGCTC
 CCGGATCAAAGGCTGGTGGGTGTTCATCACTACGTGTCCGCTTCTGTGCGGAGTCACTGCTGACGTGG
 CCCGACGGTCTCATGTACCAGAAATCCGGAACCAATTCCTCTCCTTTTCCATGTACCAGAGCTTCGTGC
 AGTTTCTCCAGTACTACTACCAGAGCGGCTGCCTTACCGCTGCGGGCGCTGGGCGAGCGGCACACCAT
 GGACCTCACTGTGGAGGGCTTCCAGTCTGGATGTGGCGGGCCCTCACCTTCTGCTGCCTTTTCTTTTC
 TTTGGACACTTCTGGCAGCTTTTAAACGCGCTGACGTTGTCAACCTGGCCAGGACCCTCAGTGCAAGG
 AGTGGCAGGTGCTTATGTGCGGCTTCCCTTCTCCTCTTCTCGGCAATTTCTTACCACCCTGAG
 GGTGTGCACCACAAGTTTCACAGTCAGCGGCACGGGAGCAAGAAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC208685 protein sequence
 Red=Cloning site Green=Tags(s)

MQPPPPGPLGDCLRDWEDLQQDFQNIQETHRLYRLKLEELTKLQNNCTSSITRQKKRLQELALALKKCKP
 SLPAAEAGAAQELNQMKERQGLFFDMEAYLPKKNGLYLSLVGNVNTLLSKQAKFAYKDEYEFKLYL
 TIILILISFTCRFLLNSRVTDAAFNFLVWYYCTLTIREILINNGSRIGWVVFHHYVSAFLSGVMLTW
 PDGLMYQKFRNQFLSFSMYQSFVQFLQYYYQSGCLYRLRALGERHTMDLTVEGFQSWMWRLTFLLPFLF
 FGHFQQLFNALTFLNLAQDPQCKEQVLMCGFPFLLLFLGNFFTTLRVVHHKFHSQRHGSKKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6362_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031925

ORF Size: 1029 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

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

RefSeq: [NM_031925.3](#)

RefSeq Size: 1497 bp

RefSeq ORF: 1032 bp

Locus ID: 83862

UniProt ID: [Q9BXJ8](#)

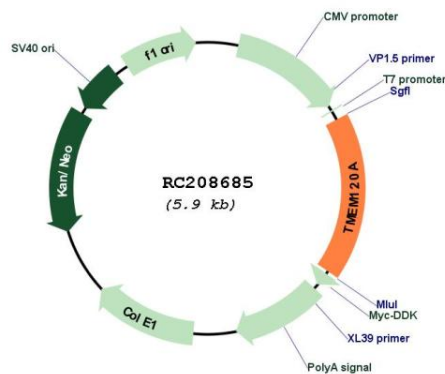
Cytogenetics: 7q11.23

Protein Families: Transmembrane

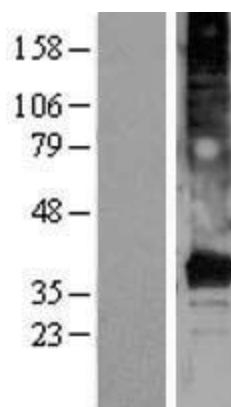
MW: 40.6 kDa

Gene Summary: Necessary for efficient adipogenesis (PubMed:26024229).[UniProtKB/Swiss-Prot Function]

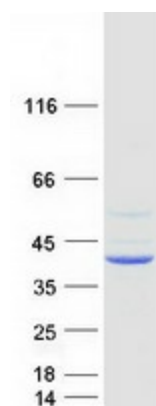
Product images:



Circular map for RC208685



Western blot validation of overexpression lysate (Cat# [LY410439]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208685 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMEM120A protein (Cat# [TP308685]). The protein was produced from HEK293T cells transfected with TMEM120A cDNA clone (Cat# RC208685) using MegaTran 2.0 (Cat# [TT210002]).