

Product datasheet for RC203634

C3ORF31 (TAMM41) (NM_138807) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C3ORF31 (TAMM41) (NM_138807) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C3ORF31
Synonyms:	C3orf31; RAM41; TAM41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203634 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGCAGACGCTGCAGAGCTCGTGGGTGACCTCCGCAAGATCCTGTCTCACTTCCCCGAGGAGC
TGAGTCTGGCTTTCGTCTACGGCTCCGGGGTGTACCGCCAGGCAGGGCCGAGTTCAGACCAGAAGAATGC
TATGCTGGACTTTGTGTTACAGTAGATGACCCTGTCGCATGGCATTCAAAGAACCTGAAGAAAAATTGG
AGTCACTACTCTTTCCTAAAAGTTTTAGGGCCCAAGATTACACGTCCATCCAGAATAACTATGGCGCTG
GAGTTTACTACAATTCATTGATCATGTGAATGGTAGGCTTATCAAATATGGAGTTATTAGCACTAACGT
TCTGATTGAAGATCTCCTCAACTGGAATAACTTATACATTGCTGGACGACTCCAAAAACCGTGAAAATT
ATCTCAGTGAACGAGGATGTCACCTTAGATCAGCCCTCGATAGAAATCTGAAGAGTGCTGTGACCGCTG
CTTTCCTCATGCTCCCCGAAAGCTTTTCTGAAGAAGACCTCTTCATAGAGATTGCCGGTCTCTCCTATTC
AGGTGACTTTCGGATGGTGGTTGGAGAAGATAAAACAAAAGTGTGAATATTGTGAAGCCCAATATAGCC
CACTTTCGAGAGCTCTATGGCAGCACTACAGGAAAATCCTCAAGTGGTGTATAAAAGCCAGCAAGGCT
GGCTGGAGATAGATAAAAGCCAGAAGGACAGTTCACCTCAGCTGATGACATTGCCAAAACCTTACAGCA
ACAGATAAATCATATTATGGACCCTCCTGGAAAAACAGAGATGTGGAAGAACTTTATTCCAAGTGGCT
CATGATCCCGACTGTGGAGATGTGGTGGACTAGGCCTGAAGAAGTCAGTGATTTATAGTTCACATAAAC
TGCACAAAATGTGGAAGGGTGGCTGAGGAAAACATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203634 protein sequence
 Red=Cloning site Green=Tags(s)

MALQTLQSSWVTRKILSHFPEELSLAFVYGSVYRQAGPSSDQKNAMLDVFTVDDPVAWHSKLNKKNW
 SHYSFLKVLGPKIITSIQNNYAGVYYNSLIMCNGRLIKYGVISTNVLIEDLLNWNLYIAGRLQKPKVI
 ISVNEDVTLRSALDRNLKSAVTA AFLMLPEFSFSEEDLFIETAGLSYSGDFRMVVGEDKTKVLNIVKPNIA
 HFRELYGSILQENPQVVYK SQQGWLEIDKSPGQFTQLMTPKTLQQQINHIMDPPGKNRDVEETLFQVA
 HDPDCGDVVRLLGLKKSVIYSSLKLHKMWKGWLRKTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6424_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138807

ORF Size: 948 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.

RefSeq: [NM_138807.4](#)

RefSeq Size: 1311 bp

RefSeq ORF: 951 bp

Locus ID: 132001

UniProt ID: [Q96BW9](#)

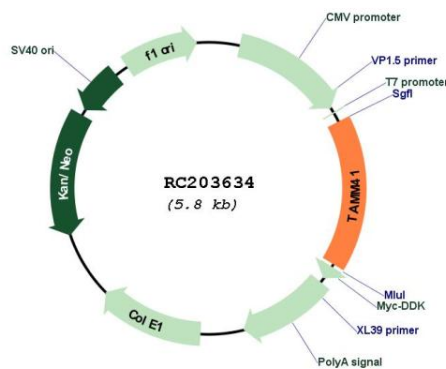
Cytogenetics: 3p25.2

Protein Families: Transcription Factors

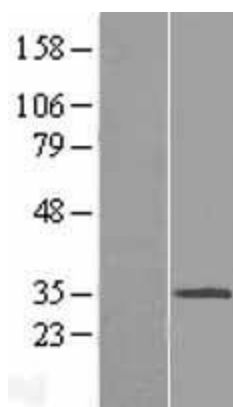
MW: 35.9 kDa

Gene Summary: Catalyzes the formation of CDP-diacylglycerol (CDP-DAG) from phosphatidic acid (PA) in the mitochondrial inner membrane. Required for the biosynthesis of the dimeric phospholipid cardiolipin, which stabilizes supercomplexes of the mitochondrial respiratory chain in the mitochondrial inner membrane.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC203634



Western blot validation of overexpression lysate (Cat# [LY408493]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203634 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).