

Product datasheet for **RG203634**

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:	TurboGFP
Symbol:	C3ORF31
Synonyms:	C3orf31; RAM41; TAM41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203634 representing NM_138807 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCGCTGCAGACGCTGCAGAGCTCGTGGGTGACCTCCGCAAGATCCTGTCTCACTTCCCCGAGGAGC
TGAGTCTGGCTTTTCGTCTACGGCTCCGGGGTGTACCGCCAGGCAGGGCCGAGTTCAGACCAGAAGAATGC
TATGCTGGACTTTGTGTTACAGTAGATGACCCTGTCGCATGGCATTCAAAGAACCTGAAGAAAAATTGG
AGTCACTACTCTTTCCTAAAAGTTTAGGGCCCAAGATTATCACGTCCATCCAGAATAACTATGGCGCTG
GAGTTTACTACAATTCATTGATCATGTGAATGGTAGGCTTATCAAATATGGAGTTATTAGCACTAACGT
TCTGATTGAAGATCTCCTCAACTGGAATAACTTATACATTGCTGGACGACTCCAAAAACCGGTGAAAT
ATCTCAGTGAACGAGGATGTCACTCTTAGATCAGCCCTCGATAGAAATCTGAAGAGTGCTGTGACCGCTG
CTTTCCTCATGCTCCCCGAAAGCTTTTCTGAAGAAGACCTCTTCATAGAGATTGCCGGTCTCTCCTATTC
AGGTGACTTTCGGATGGTGGTTGGAGAAGATAAAACAAAGTGTGAATATTGTGAAGCCCAATATAGCC
CACTTTCGAGAGCTCTATGGCAGCATACTACAGGAAATCCTCAAGTGGTGTATAAAGCCAGCAAGGCT
GGCTGGAGATAGATAAAAGCCAGAAGGACAGTTCCTCAGCTGATGACATTGCCCAAAACCTTACAGCA
ACAGATAAATCATATTATGGACCCTCCTGGAAAAACAGAGATGTGGAAGAACTTTATTCCAAGTGGCT
CATGATCCCGACTGTGGAGATGTGGTGCAGTACGGCTGAAGAAGTCAGTGATTATAGTTCACTAAAAC
TGCACAAAATGTGGAAGGGTGGCTGAGGAAAACATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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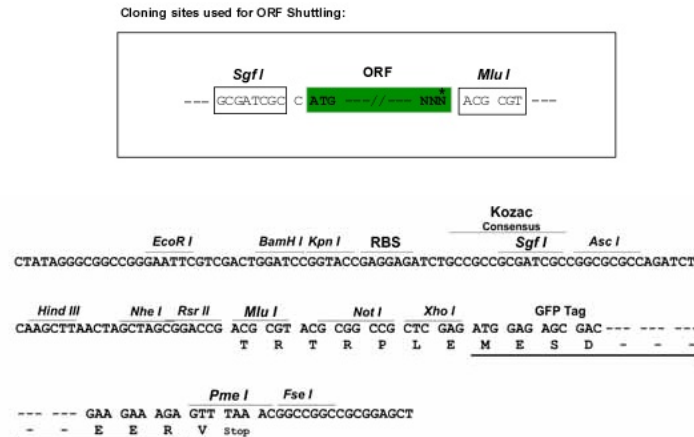
Protein Sequence: >RG203634 representing NM_138807
 Red=Cloning site Green=Tags(s)

MALQTLQSSWVTRFKILSHFPEELSLAFVYGSGVYRQAGPSSDQKNAMLDVFTVDDPVAWHSKNLKKNW
 SHYSFLKVLGPKIITSIQNNYGAGVYYNSLIMCNGRLIKYGVISTNVLIEDLLNWNLYIAGRLQKPVKI
 ISVNEDVTLRSALDRNLKSAVTA AFLMLPESFSEEDLFIEIAGLSYSGDFRMVVGEDKTKVLNIVKPNIA
 HFRELYGSILQENPQVVYKSQQGWLEIDKSPEGQFTQLMTLPKTLQQQINHIMDPPGKNRDVEETLFQVA
 HDPDCGDVVRLGLKKSVIYSSSLKLHKMWKGWLRKTS

TRTRPLE – GFP Tag – V

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.

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

RefSeq: [NM_138807.4](#)

RefSeq Size: 1270 bp

RefSeq ORF: 951 bp

Locus ID: 132001

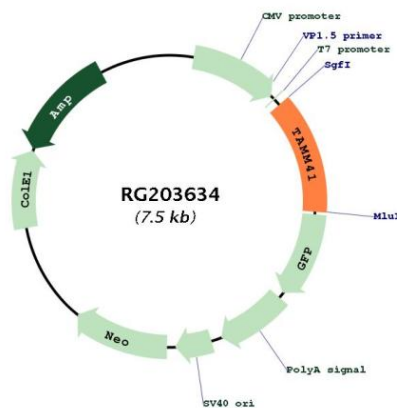
UniProt ID: [Q96BW9](#)

Cytogenetics: 3p25.2

Protein Families: Transcription Factors

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 RG203634