

Product datasheet for RC229605

DMAC2 (NM_001167870) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DMAC2 (NM_001167870) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DMAC2
Synonyms: ATP5SL
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC229605 representing NM_001167870
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTCGCCCCATGTGGAATGGGCGTATCAGGGGCATCCATC
GCCTGGGTGCGGCAGTGGCCCCAGAGGGCAATCAGAAGAAGAAAAGGACAATACTCCAGTTCCTGACCAA
CTATTTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCAAAGGGAGATGTACAAGGTGCATGAGAAA
AATCGGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTCTGGAATT
TCTGTGAAGTGCCTGTGAAGCTGTGGATGCCGGTGACTGTGACATCAACTACGAGGGCCTGGATAACCT
CCGAACCTCCGCAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAACCTGGCCTCACTCAGATATTGG
TGGAGGAGATGCTGCCAATTGCGAGGTTGTGGGAGTCGACTGGGCTGAGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229605 representing NM_001167870
Red=Cloning site Green=Tags(s)

MAAPWASLRLVAPMWNIRIRGIHRLGAAVAPEGNQKKRRTILQFLTNYFYDVEALRDYLLQREMYKVHEK
NRFKDKWIRPKYGHFSQEFWNFCEVPVEAVDAGDCDINYEGLDNLRTSAGWTSRSLPCTLASLRYW
WRRCCPIARLWESTGLRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

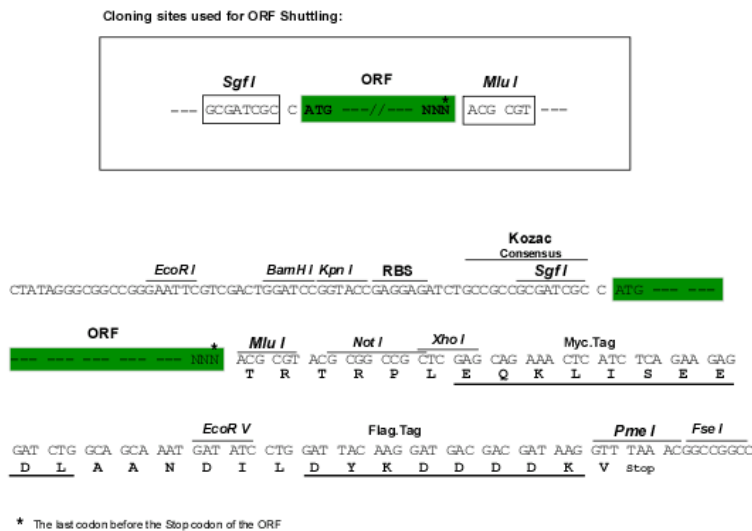
Chromatograms: https://cdn.origene.com/chromatograms/ja1461_c07.zip



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001167870

ORF Size: 474 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_001167870.2](#)

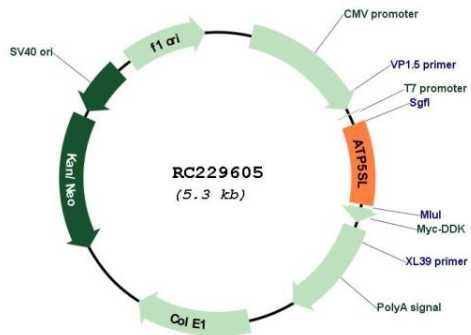
RefSeq ORF: 477 bp

Locus ID: 55101

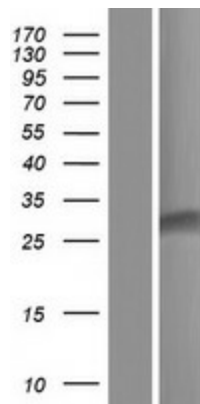
UniProt ID: [Q9NW81](#)

Cytogenetics: 19q13.2
MW: 19.1 kDa
Gene Summary: Required for the assembly of the mitochondrial NADH:ubiquinone oxidoreductase complex (complex I). Involved in the assembly of the distal region of complex I.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC229605



Western blot validation of overexpression lysate (Cat# [LY432605]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229605 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).