

Product datasheet for **RC229660**

DMAC2 (NM_001167868) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DMAC2 (NM_001167868) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DMAC2
Synonyms: ATP5SL
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC229660 representing NM_001167868
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGGGATTTGGTCTTAGAAGACCGAAGGATGAATTCCTGCGCCTGGTCGCCCCATGTGGAATGGC
GTATCAGGGGCATCCATCGCTGGGTGCGGCAGTGGCCCCAGAGGCAATCAGAAGAAGAAAAGGACAAT
ACTCCAGTTCCTGACCACTATTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCAAAGGGAGATG
TACAAGGTGCATGAGAAAATCGATCTTACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTG
CCTTTTTTCATCCTGAAGCAGGGAGGCGCAGTCAAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTA
TGGCCATTTCTCTCAGGAGTTCTGGAATTTCTGTGAAGTGCTGTGGAAGCTGTGGATGCCGGTGACTGT
GACATCAACTACGAGGGCCTGGATAACCTCCGAACCTCCGAGGCTGGACATCTCGGACCTCCCTGCCGT
GTCCAACCCTGGCCTCACTCAGATATTGGTGGAGGAGATGCTGCCCAATTGCGAGGTTGTGGGAGTCGAC
TGGGCTGAGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229660 representing NM_001167868
Red=Cloning site Green=Tags(s)

MWDLVLEDRRMNSLRVAPMWNIRIRGIHRLGAVAPEGNQKKRITLQFLTNYFYDVEALRDYLLQREM
YKVEKNRSYTWLEKQHGYPYGAGAFFILKQGGAVKFRDKEWIRPKYGHFSQEFWNFCEVPVEAVDAGDC
DINYEGLDNLRTSAGWTSRTSLPCPTLASLRYWRRCCPIARLWESTGLRA

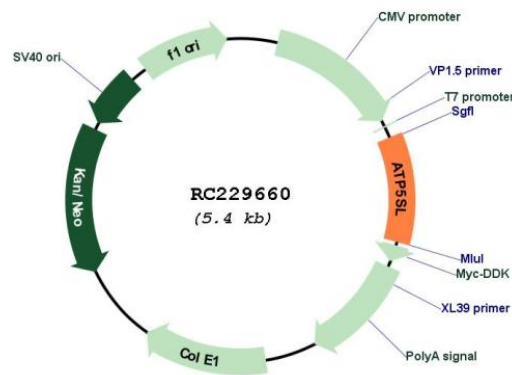
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001167868

ORF Size: 573 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_001167868.2](#)

RefSeq ORF: 576 bp

Locus ID: 55101

UniProt ID: [Q9NW81](#)

Cytogenetics: 19q13.2

MW: 22.9 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]