

Product datasheet for **RC229725**

DMAC2 (NM_001167871) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DMAC2 (NM_001167871) 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: >RC229725 representing NM_001167871
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTCGCCCCATGTGGAATGGGCGTATCAGGGGCATCCATC
GCCTGGGTGCGGCAGTGGCCCCAGAGGGCAATCAGAAGAAGAAAAGGACAATACTCCAGTTCCTGACCAA
CTATTTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCAAAGGGAGATGTACAAGGTGCATGAGAAA
AATCGGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTTCTGGAATT
TCTGTGAAGTGCCTGTGAAGCTGTGGATGCCGGTGACTGTGACATCAACTACGAGGGCCTGGATAACCT
CCTCCGCCTGAAGGAGCTCCAGTCTTGTGCTGTCAGCGCTGCTGCCACGTGGACGACTGGTGTCTCAGC
CGCCTTACCCACTGGCCGACTCGTTGCAAGGAGCTCTCGCTGGCCGGTTGCCCCGCATCTCCGAACGGG
GCCTCGCCTGCCTCCACCACCTCCAGAACCTCCGCAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAA
CCCTGGCCTCACTCAGATATTGGTGGAGGAGATGCTGCCCAATTGCGAGGTTGTGGGAGTCGACTGGGCT
GAGGGCCTGAAGTCAGGGCCGGAGGAGCAGCCTCGGGACACAGCCAGCCCTGTCCCTGCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229725 representing NM_001167871
 Red=Cloning site Green=Tags(s)

MAAPWASLRLVAPMWNIRIRGIHRLGAAVAPEGNQKKRRTILQFLTNYFYDVEALRDYLLQREMYKVHEK
 NRFRDKIEWIRPKYGHFSQEFWNFCVPEVAVDAGDCDINYEGLDNLRLKELQSLSLQRCCHVDDWCLS
 RLYPLADSLQELSLAGCPRI SERGLACLHHLQNLRLDISDLPVSNPGLTQILVEEMLPNCEVVGVDWA
 EGLKSGPEEQPRDTASPVPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001167871

ORF Size: 690 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_001167871.2](#)

RefSeq ORF: 693 bp

Locus ID: 55101

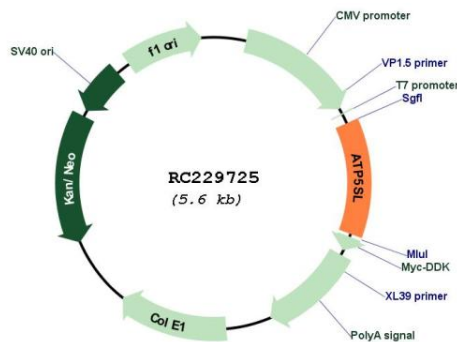
UniProt ID: [Q9NW81](#)

Cytogenetics: 19q13.2

MW: 26.8 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 RC229725