

Product datasheet for **RG214916**

DMAC2 (NM_018035) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DMAC2 (NM_018035) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DMAC2
Synonyms:	ATP5SL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214916 representing NM_018035 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTCGCCCCATGTGGAATGGGCGTATCAGGGGCATCCATC
GCCTGGGTGCGGCAGTGGCCCCAGAGGGCAGTCAGAAGAAGAAAAGGACAATACTCCAGTTCCTGACCAA
CTATTTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCAAAGGGAGATGTACAAGGTGCATGAGAAA
AATCGATCTTACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTGCCTTTTTCATCCTGAAGC
AGGGAGGCGCAGTCAAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCAGGA
GTTCTGGAATTTCTGTGAAGTGCCTGTGGAAGCTGTGGATGCCGGTACTGTGACATCAACTACGAGGGC
CTGGATAACCTCCTCCGCTGAAGGAGCTCCAGTCTTGTGCTGCAGCGCTGCTCCCACGTGGACGACT
GGTGTCTCAGCCGCTCTACCACTGGCCGACTCGTTGCAGGAGCTCTCGCTGGCCGTTGCCCCGCAT
CTCCGAACGGGGCTCGCTGCCTCCACCCTCCAGAACCTCCGAGGCTGGACATCTCGGACCTCCCT
GCCGTGTCCAACCTGGCCTCACTCAGATATTGGTGGAGGAGATGCTGCCAATTGCGAGGTTGTGGGAG
TCGACTGGGCTGAGGGCCTGAAGTCAGGGCCGAGGAGCAGCCTCGGGACACAGCCAGCCCTGTCCCTGC
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214916 representing NM_018035
 Red=Cloning site Green=Tags(s)

MAAPWASLRLVAPMWNIRIRGIHRLGAAVAPEGSQKKKRTILQFLTNYFYDVEALRDYLLQREMYKVHEK
 NRSYTWLEKQHGPYAGAFFILKQGGAVKFRDKIEWIRPKYGHFSQEFWNFCEVPVEAVDAGDCDINYEG
 LDNLLRLKELQSLSLQRCSHVDDWCLSRLYPLADSLQELSLAGCPRI SERGLACLHHLQNLRLRDLISDLP
 AVSNPGLTQILVEEMLPNCEVVGVDWAEGLKSGPEEQPRDTASPVPA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018035

ORF Size: 771 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_018035.1](#), [NP_060505.1](#)

RefSeq Size: 1692 bp

RefSeq ORF: 774 bp

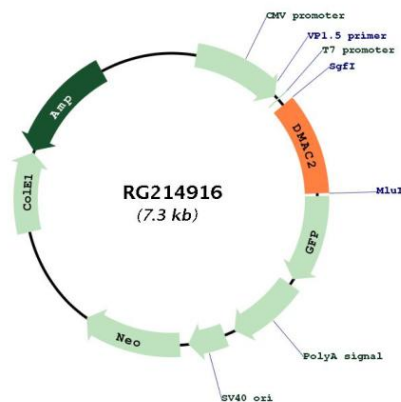
Locus ID: 55101

UniProt ID: [Q9NW81](#)

Cytogenetics: 19q13.2

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 RG214916