

Product datasheet for **RG216385**

DMAC2L (NM_015684) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DMAC2L (NM_015684) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DMAC2L
Synonyms: ATP5S; ATPW; FB; HSU79253
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216385 representing NM_015684
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGTGCTGTGCGGTCTCTGAGCAGCGACTCACCTGTGCAGATCAAATGATGCCGTTTGGAAAAATTTCCC
AGCAGTTGTGTGGCGTAAAGAACTCCCATGGTCATGTGACTCCAGATACTTCTGGGGCTGGTTGAATGC
AGTGTTTAATAAGGTGGATTATGATCGCATCAGGGATGTTGGCCCTGACAGGGCGGCATCCGAGTGGTTG
CTGCGCTGTGGGGCCATGGTGCCTACCATGGCCAGGAGAGGTGGCAGAAGGACTACAACCACCTTCCAA
CAGGCCCTCTGGACAAATACAAGATTAGGCGATCGACGCCACCGACTCTGTATCATGAGCATTGGATT
TGATCACATGGGTAACCTACCTATCGTTTGTCTAATAGAAAATGCAGATGATTTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

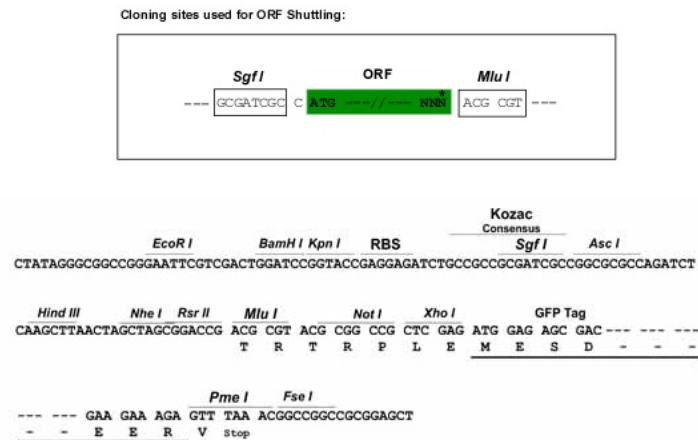
Protein Sequence: >RG216385 representing NM_015684
Red=Cloning site Green=Tags(s)

MCCAVSEQRLTCADQMMPFGKISQQLCGVKKLPSWCDSDRYFWGWLNAVFNKVDYDRIRDVGPDRASEWL
 LRCGAMVRYHGQERWQKDYNHLPTGPLDKYKIQAI DATSCIMSIGFDHMGNYPIVLLIENADDLQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI


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Cloning Scheme:


ACCN: NM_015684

ORF Size: 408 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_015684.3](#), [NP_056499.2](#)

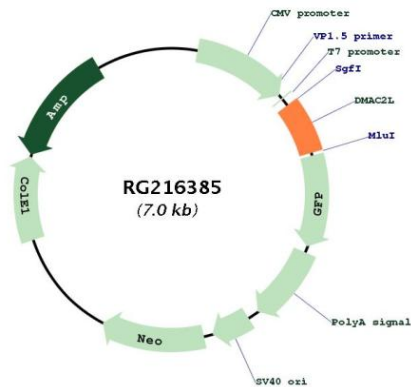
RefSeq Size: 1359 bp

RefSeq ORF: 366 bp

Locus ID: 27109
UniProt ID: [Q99766](#)
Cytogenetics: 14q21.3
Gene Summary:

This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F₁, and the membrane-spanning component, F_o, comprising the proton channel. This gene encodes the subunit s, also known as factor B, of the proton channel. This subunit is necessary for the energy transduction activity of the ATP synthase complexes. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216385