

## Product datasheet for **SC300556**

### DMAC2L (NM\_001003805) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DMAC2L (NM_001003805) Human Untagged Clone
Tag:	Tag Free
Symbol:	DMAC2L
Synonyms:	ATP5S; ATPW; FB; HSU79253
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300556 representing NM_001003805. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGTGCTGTGCGGTCTCTGAGCAGCGACTCACCTGTGCAGATCAAATGATGCCGTTTGGAAAAATTTCC  
 CAGCAGTTGTGTGGCGTAAAGAACTCCCATGGTCATGTGACTCCAGATACTTCTGGGGCTGGTTGAAT  
 GCAGTGTTTAATAAGGTGGATTATGATCGCATCAGGGATGTTGGCCCTGACAGGGCGGCATCCGAGTGG  
 TTGCTGCGCTGTGGGCCATGGTGCCTACCATGGCCAGGAGAGGTGGCAGAAGGACTACAACCACCTT  
 CCAACAGGCCCTCTGGACAAATACAAGATTCAGGCGATCGACGCCACCGACTCTTGATCATGAGCATT  
 GGATTTGATCACATGGAACCTCAAATATTTGTTG**TAA**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001003805
Insert Size:	384 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.


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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001003805.2</u>
<b>RefSeq Size:</b>	1687 bp
<b>RefSeq ORF:</b>	384 bp
<b>Locus ID:</b>	27109
<b>UniProt ID:</b>	<u>Q99766</u>
<b>Cytogenetics:</b>	14q21.3
<b>MW:</b>	14.7 kDa
<b>Gene Summary:</b>	<p>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, Fo, 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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and lacks a segment in the coding region which leads to a frameshift, compared to variant 4. The resulting isoform (b) contains a shorter and distinct C-terminus compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>