

Product datasheet for **SC320790**

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-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001003805.1
 GGCCAGGGTGCCGACGACGCGGGGACGCTGGCTCGCTCCCTCCCTCCCTCCCTCCGACGC
 TGTGAGTAGAGAAAGCTAGGCCCGAGCCGGGCGGGACTAGGGTGGTGGTTGTGTTCTGCC
 CTCGCCGTCGCCAACGCTGGGCTGACTGAAAACCTGGCCCTTTGGGTCGCGCGTCTTCG
 ACTTTCACCGCCATGCGGACATGGGGCCGTGGGAGAACTCTGGGCGGGATTACGGTGAA
 AATTCTTGTTTGGGCGGGCCCTCGCGCTTCTTTCTTCGGCTCGCCCTCGGCCCGCCCT
 CGCCCCGCCCGCTCCAGCTCCAGCCGGTCTCGCTCGGCCCGCACGCGGGCCGCGG
 TAGACGGAGGGCCTGGGCACCCACCGTCTCCATCCCGGCCCGAGCCAGTCGAGCGTCCA
 CTAGAAGGGCGCTCCCTGTCCGGCCCTAATCCTCGCTCCTCACGAGGCTCTTTGTCACA
 GCGAAGACTGACAGCCCGCAGTCTTCTGGACTTCTTTATGGGGCTCCTGGCGGTGCTAT
 TCATTCAGTCATTGATTCGTCTTGTAAATATGGAGCGCCTGCTCTGACTCGACCCGGCA
 CTGGGTACCGGAAGAACCAGACAGCTCGGTTTTTGCCACCATTTATAAGTCTGTGTCCTT
 TTCTTGAGTACTGAACCGAGATACAGTTTTAAATGTGCTGTGCGGTCTCTGAGCAGCGAC
 TCACCTGTGCAGATCAAATGATGCTGTTTGAAAAATTTCCAGCAGTTGTGTGGCGTAA
 AGAAACTCCCATGGTCATGTGACTCCAGATACTTCTGGGGCTGGTTGAATGCAGTGTTA
 ATAAGGTGGATTATGATCGCATCAGGGATGTTGGCCCTGATAGGGCGGCATCCGAGTGGT
 TGCTGCGCTGTGGGGCCATGGTGCCTACCATGGCCAGGAGAGGTGGCAGAAGGACTACA
 ACCACCTTCCAACAGGCCCTCTGGACAAATACAAGATTCAGGCGATCGACGCCACCGACT
 CTTGTATCATGAGCATTGGATTTGATCAGTAAACCTCAAATATTTGTTGTTAAGTGA
 TCTTCTGGAGTAAGAGAAAAAGAAAATCTTGCCAAGCCTTAAAGACAGCACTGCCTTC
 TCTGGAATAAAATTACAATTGAAGTAAATAATGTGCTTATTTTCAGTATAAAGGATCA
 TTTGAAACTGTTGATCCAAACATCAACTAATATTATATAGTCATCAGTAGAATTATAAG
 GATGCCATATCATGACATTTTGAAGTGGAGAGTGCATCATATGTAGAAAAATAAATATTC
 AGACGTGGCTCATTAATGTTACTAAGTTGGAAGTGAGAATTTATGAACATTAATTCATTT
 TAAGAAAAGTGCAGCCAGGCGCAGTGGCTCATGCCTGTAATCCTAGCACTTTGGGAGGCC
 AAAGCGGGCAGATCACCTGAGGTCAGGAGTTCAAGACCAACCATGGCCAACATGGTGAAA
 CCCCATCTCTACTAAAAAAACAAAATTAGCTGAATGTGGTGGTGCACGCCTTTAATCCCA
 GCTACTCTGGAGGCTGAGGCAGGAGAATCACTTGACTTGGGAGGTGGAGGTTGCAGGGAC
 CCGAGATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTGTCTCAAAAAAAAA
 AAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001003805
- 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.
- 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_001003805.1](#), [NP_001003805.1](#)

RefSeq Size: 1395 bp

RefSeq ORF: 384 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, 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]

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.