

Product datasheet for SC113819

DMAC2 (NM_018035) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DMAC2 (NM_018035) Human Untagged Clone
Tag:	Tag Free
Symbol:	DMAC2
Synonyms:	ATP5SL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113819 sequence for NM_018035 edited (data generated by NextGen Sequencing)

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ATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTCGCCCCCATGTGGAATGGGCGTATCAGG
GGCATCCATCGCCTGGGTGCGGCAGTGGCCCCAGAGGGCAGTCAGAAGAAGAAAAGGACA
ATACTCCAGTTCCCTGACCAACTATTTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTC
CAAAGGGAGATGTACAAGGTGCATGAGAAAAATCGATCTTACACCTGGCTGGAGAAGCAA
CATGGTCCATACGGCGCAGGTGCCTTTTTTCATCCTGAAGCAGGGAGGCGCAGTCAAGTTT
CGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTTCTGGAAT
TTCTGTGAAGTGCCTGTGAAGCTGTGGATGCCGGTGACTGTGACATCAACTACGAGGGC
CTGGATAACCTCCTCCGCTGAAGGAGCTCCAGTCTTGTGCTGCAGCGCTGCTCCAC
GTGGACGACTGGTGTCTCAGCCGCTCTACCCACTGGCCGACTCGTTGCAGGAGCTCTCG
CTGGCCGTTGCCCGCATCTCCGAACGGGGCCTCGCCTGCCTCCACCCTCCAGAAC
CTCCGCAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAACCCTGGCCTCACTCAGATA
TTGGTGGAGGAGATGCTGCCAATTGCGAGGTTGTGGGAGTGCAGTGGGCTGAGGGCCTG
AAGTCAGGGCCGGAGGAGCAGCCTCGGGACACAGCCAGCCCTGTCCCTGCCTAG

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Clone variation with respect to NM_018035.2
101 a=>g;476 g=>c



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_018035 unedited ATTCCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCA GAGCTCATTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGA ATTCGGCACGAGGCGAAACCTTAGCAAGATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGT CGCCCCATGTGGAATGGGCGTATCAGGGGCATCCATCGCTGGGTGCGGCAGTGGCCCC AGAGGGCAGTCAGAAGAAGAAAAGGACAATACTCCAGTTCCTGACCAACTATTTCTACGA TGTGGAGGCTCTGAGGGATTACTTGCTCCAAGGGAGATGTACAAGGTGCATGAGAAAAA TCGATCTTACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTGCCTTTTCAT CCTGAAGCAGGGAGGCGCAGTCAAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTA TGGCCATTTCTCTCAGGAGTTCTGGAATTTCTGTGAAGTGCCTGTGCAAGCTGTGGATGC CGGTGACTGTGACATCAACTACGAGGGCCTGGATAACCTCCTCCGCTGAAGGAGCTCCA GTCCTTGTGCTGCAGCGCTGCTCCACGTGGACGACTGGTGTCTCAGCCGCTCTACCC ACTGGCCGACTCGTTGCAGGAGCTCTCGCTGGCCGNTGCCCCGCATCTNCGAACGGGG CCTCGCCTGCCTNACCACCTCCAGAACCTCCGAGGCTGGACATCTCGGACCTCCTGC CGTGTCCAACCTGGCCTCACTCAGAATATTGGTGGAGGAGATGTGCCAANNTGCGAG GNTGTGGNAGTCGACTGGGCTGNAGGCCTGAAGTCANGGCCCGGAGAGCAGNNCTCGGAA CAGNACAGNCTGNCCTGCCTAGCTTTANCCCTGTCCNACTCACGTGCTCTCAGCGGT GCATGGAATGGC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_018035 unedited GGAATACTATGNACCGCGCCGCTTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAACCTGAACAGGGAAAGTTAATATAGGAA AATTACCTGGCTTAAACAGTGAAGTGAATAATGAGGGCTTCACTGGTAAATGCTTCTG AATTGACTGGAATCCCTTTGGGGGCTGGGGAACCTTTTCCCAAAAAGGGGCTCAAT GGAGGCGCTGTGTCTCTACCAACTTTTGAGGGCTGGAGGGTGCCAGGGCAACTGCTT ACCCCCTGGTGTCTTAAAGAACTGGGTGCTGGGAAACCACATGCCCTGGGGCGTCCCAAG GCCAAAGCCCCACCCACAAGAACCACGAAGGAAGCCCCCTTCCCTATAATGCCCGTTT GGGGCCCTACTGACAAAACCTATCCCTTTTAAAAACAACCCACTGAAAAAGCTTAA TTTTGAACATAAAGTCCATAAATCCCTAACCCGCCATTCTTTGGGCCCGGGGGCGCCG GCCTTTAATGAATGGAGTGGGGCCAAAGATTCTCATTTCCTGAATGGCCCCCGGCC CCTGACGGGGGAAAAACCTCCCGTAAAGGGTGAATATAACCCCTGTGGTCAATCAC GGTCCCCCCCCAAAAAATGGCCGTGCCCTCCCTTAAAGGCCCTTTGAAAAGAAACTCCCC ACAAGGGGAAGAGGGGAGTTTTTGGGGTTATAAAAACCTGGAGCCTTTTCTCCCAA GCCTTAAAAGGGGCAATTGAAAGGGCTTCTCGACAAGGTGGAACAAGGACCTTTTAC CCTTTTCCAGGGCCGCCCGAAAAAATACCGGGGAACCTCCCCCTTTTCCCTC TGTTTGGGCCGAGAACAACACTCTCCACCCCGCCTTGTGGTG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_018035
Insert Size:	1800 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).
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]
Transcript Variant: This variant (4) contains an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (4) is shorter compared to isoform 1.