

# Product datasheet for RC218224

### ATP5MC3 (NM\_001002258) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	ATP5MC3 (NM_001002258) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP5MC3
Synonyms:	ATP5G3; P3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC218224 representing NM_001002258 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GC <mark>CGCGATCGC</mark> C
	ATGTTCGCCTGCGCCAAGCTCGCCTGCACCCCCTCTCTGATCCGAGCTGGATCCAGAGTTGCATACAGAC CAATTTCTGCATCAGTGTTATCTCGACCAGAGGGCTAGTAGGACTGGAGAGGGCTCTACGGTATTTAATGG GGCCCAGAATGGTGTGTCTCAGCTAATCCAAAGGGAGTTTCAGACCAGTGCAATCAGCAGAGACATTGAT ACTGCTGCCAAATTTATTGGTGCAGGTGCTGCAACAGTAGGAGTGGCTGGTTCTGGTGCTGGTATTGGAA CAGTCTTTGGCAGCCTTATCATTGGTTATGCCAGAAACCCTTCGCTGAAGCAGCAGCTGTTCTCATATGC TATCCTGGGATTTGCCTTGTCTGAAGCTATGGGTCTCTTTTGTTTG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC218224 representing NM_001002258 Red=Cloning site Green=Tags(s)
	MFACAKLACTPSLIRAGSRVAYRPISASVLSRPEASRTGEGSTVFNGAQNGVSQLIQREFQTSAISRDID TAAKFIGAGAATVGVAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILF AM
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk8001_f01.zip



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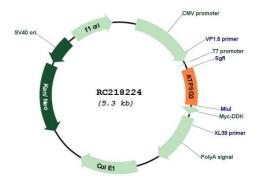
## **GRIGENE** ATP5MC3 (NM\_001002258) Human Tagged ORF Clone – RC218224

Exercise       Exercise         Image: Scheme in the image: Scheme in	
ACCN: NM_001002258 ORF Size: 426 bp OTI Disclaimer: The molecular seq reference only. Ho naturally occurring clone is substantia variants is recomm OTI Annotation: This clone was eng varies depending of Components: The ORF clone is is containing 10ug of Reconstitution Method: 1. Centrifuge at 5,0 2. Carefully open to 3. Close the tube at 4. Briefly vortex th at the bottom. 5. Store the suspe shipping when stor RefSeq: NM_001002258.5 RefSeq Size: 979 bp RefSeq ORF: 429 bp	sgfi ORF Miui scgarcgo c Arg NIX Acg cg
ACCN: NM_001002258 ORF Size: 426 bp OTI Disclaimer: The molecular seq reference only. Ho naturally occurring clone is substantia variants is recomm OTI Annotation: This clone was eng varies depending of Components: The ORF clone is in containing 10ug of Reconstitution Method: 1. Centrifuge at 5,0 2. Carefully open to 3. Close the tube at 4. Briefly vortex the at the bottom. 5. Store the suspending when stor RefSeq: NM 001002258.5 RefSeq Size: 979 bp RefSeq ORF: 429 bp	Kozac         Consensus         Sgfi         TCGACTGGGTACCGGGGGGGATCGCCCCCCCCCCCCCCC
ACCN:NM_001002258ORF Size:426 bpOTI Disclaimer:The molecular seq reference only. Ho naturally occurring clone is substantia variants is recommOTI Annotation:This clone was eng varies depending ofOTI Annotation:The ORF clone is is containing 10ug ofComponents:The ORF clone is id containing 10ug ofReconstitution Method:1. Centrifuge at 5,0 2. Carefully open to 3. Close the tube at 4. Briefly vortex th at the bottom. 5. Store the suspe shipping when stopRefSeq:NM 001002258.5 979 bpRefSeq Size:979 bpRefSeq ORF:429 bp	Cork V     Flag.Tag     Pmel     Fsel       T ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC     I     L     D     Y     K     D     D     D     K     V     stop
ORF Size:426 bpOTI Disclaimer:The molecular seq reference only. Ho naturally occurring clone is substantia variants is recommOTI Annotation:This clone was eng varies depending of Components:OTI Annotation:The ORF clone is is containing 10ug of 3. Close the tube a 4. Briefly vortex th at the bottom. 5. Store the suspe shipping when stopRefSeq:NM 001002258.5 979 bpRefSeq ORF:429 bp	in of the ORF
ORF Size:426 bpOTI Disclaimer:The molecular seq reference only. He naturally occurring clone is substantia variants is recommOTI Annotation:This clone was eng varies depending of Components:OTI Annotation Method:The ORF clone is is containing 10ug of 3. Close the tube a 4. Briefly vortex th at the bottom. 5. Store the suspe shipping when stopRefSeq:NM 001002258.5 979 bpRefSeq Size:979 bpRefSeq ORF:429 bp	
<ul> <li>reference only. Ho naturally occurring clone is substantia variants is recommon the substantia variants is recommon to substantia variants is recommon to substantia variants is recommon the substantia variants is recommon to substant variants variants is recommon to substant variants is recommon to substant variants variants</li></ul>	
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containing 10ug or Reconstitution Method: 1. Centrifuge at 5, 2. Carefully open to 3. Close the tube at 4. Briefly vortex th at the bottom. 5. Store the suspension shipping when sto NM 001002258.5 RefSeq Size: 979 bp RefSeq ORF: 429 bp	gineered to express the complete ORF with an expression tag. Expression on the nature of the gene.
2. Carefully open t 3. Close the tube a 4. Briefly vortex th at the bottom. 5. Store the suspe shipping when sto RefSeq: NM 001002258.5 RefSeq Size: 979 bp RefSeq ORF: 429 bp	on-exchange column purified and shipped in a 2D barcoded Matrix tube f transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
RefSeq Size:979 bpRefSeq ORF:429 bp	the tube and add 100ul of sterile water to dissolve the DNA. and incubate for 10 minutes at room temperature. he tube and then do a quick spin (less than 5000xg) to concentrate the liquid ended plasmid at -20°C. The DNA is stable for at least one year from date of
RefSeq ORF: 429 bp	
ocus ID: 518	

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CRIGENE ATP5MC3 (NM_001002258) Human Tagged ORF Clone – RC218224		
UniProt ID:	<u>P48201</u>	
Cytogenetics:	2q31.1	
Protein Families:	Transmembrane	
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease	
MW:	14.69 kDa	
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, F0, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding different proteins have been identified. [provided by RefSeq, Jun 2010]	

## Product images:



Circular map for RC218224

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