

Product datasheet for **SC113657**

COA1 (NM_018224) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COA1 (NM_018224) Human Untagged Clone
Tag:	Tag Free
Symbol:	COA1
Synonyms:	C7orf44; MITRAC15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113657 sequence for NM_018224 edited (data generated by NextGen Sequencing)

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ATGATGTGGCAAAGTATGCAGGAAGCAGGCGGTCAATGCCTCTGGGAGCAAGGATCCTT
TTCCACGGTGTGTCTATGCCGGGGCTTTGCCATTGTGTATTACCTCATTCAAAAGTTT
CATTCCAGGGCTTTATATTACAAGTTGGCAGTGGAGCAGCTGCAGAGCCATCCCAGGCA
CAGGAAGCTCTGGGCCCTCCTCTCAACATCCATTATCTCAAGCTCATCGACAGGGAAAAC
TTCGTGGACATTGTTGATGCCAAGTTGAAGATTCCTGTCTCTGGATCCAAATCAGAGGGC
CTTCTCTACGTCCACTCATCCAGAGGTGGCCCCTTTCAGAGGTGGCACCTTGACGAGGTC
TTTTTAGAGCTCAAGGATGGTCAGCAGATTCTGTGTTCAAGCTCAGTGGGGAAAACGGT
GATGAAGTGAAAAAGGAGTAG
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Clone variation with respect to NM_018224.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_018224 unedited GGTTCAGATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCANACTCGTCATG CTCTTTGTAGCGTGGTGCTTCTGTTGCTCACAGGATGTTTGCCACACGAGTCACTCGAGA GAATCTCTGAGTCTGGCGAGGGCTTTCTGAGGCTTCGTGATTAGCAGCTGTTGTCTTC CAACTCAGCGGCAGGACAACCTTGCCTTTGATGATTTTCAAGAGAGTTGTGCTATGATGTG GCAAAAAGTATGCAGGAAGCAGGCGGTCAATGCCTCTGGGAGCAAGGATCCTTTTCCACGG TGTGTTCTATGCCGGGGCTTTGCCATTGTGTATTACCTCATTCAAAGTTTCATTCCAG GGCTTTATATTACAAGTTGGCAGTGGAGCAGCTGCAGAGCCATCCCGAGGCACAGGAAGC TCTGGGCCCTCCTCTCAACATCCATTATCTCAAGCTCATCGACAGGAAAACTTCGTGGA CATTGTTGATGCCAAGTTGAAGATTCCTGTCTCTGGATCCAAATCAGAGGGCCTTCTCTA CGTCCACTCATCCAGAGGTGGCCCTTTTCCAGAGGTGGCACCTTGACGAGGTCTTTTTAGA GCTCAAGGATGGTCAGCAGATTCCTGTGTTCAAGCTCAGTGNGGAAAACGGTGATGAAGT GAANAAGGAGTAGAGACGACCCAGAAGACCCAGCTTGCTTCTAGTCCATCCTTCCCTCAT CTCTACCATATGGCCACTGGNGTGGTGGCCCATCTCAGTGACAGACACTCCTGCAACCC AGTTTTCCAGCCACCAGTGGGATGATGTTGCACCTGGACTTGATATGAAAAGTACCATCA GANAAATCACAGAGATCTTAAACTTGCCTACCCAGACACCTGCAGGATATACCTAGATCA TCTAGTGGACCTTATTGTCTCTGAGCC
Restriction Sites:	NotI-NotI
ACCN:	NM_018224
Insert Size:	1920 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:	<ol style="list-style-type: none"> 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:	<u>NM_018224.1</u> , <u>NP_060694.1</u>
RefSeq Size:	3017 bp
RefSeq ORF:	441 bp
Locus ID:	55744
UniProt ID:	<u>Q9GZY4</u>
Cytogenetics:	7p13
Protein Families:	Transmembrane

Gene Summary:

Component of the MITRAC (mitochondrial translation regulation assembly intermediate of cytochrome c oxidase complex) complex, that regulates cytochrome c oxidase assembly. MITRAC complexes regulate both translation of mitochondrial encoded components and assembly of nuclear-encoded components imported in mitochondrion. Required for assembly of mitochondrial respiratory chain complex I and complex IV.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1, 3-6, and 16-19 all encode the same 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.