

Product datasheet for **SC102647**

C12orf62 (COX14) (NM_032901) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C12orf62 (COX14) (NM_032901) Human Untagged Clone
Tag:	Tag Free
Symbol:	C12orf62
Synonyms:	C12orf62; MC4DN10; PCAG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC102647 sequence for NM_032901 edited (data generated by NextGen Sequencing) ATGCCAACTGGCAAGCAGCTAGCTGACATTGGCTATAAGACCTTCTCTACCTCCATGATG CTTCTCACTGTGTATGGGGGTACCTCTGCAGTGTCCGAGTCTACCACTATTTCCAGTGG CGCAGGGCCAGCGCCAGGCCGAGAAGACAGAACAGACCTCAGGAATCATGTAG Clone variation with respect to NM_032901.2 >OriGene 5' read for NM_032901 unedited NAAGTCAGCTTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGCTTTAT AGCGCGCAAGCCGAATCCTAGAGGCTAACCCGGCAGGTGGGAGGAGAAAGTTGCTTTC TGACCAATAGCTGAGGCGTTCAGGGTTGTCCAGGGACGCTACCCTCACGTGTCTGGTTC CGAGTGTGCGTTCGGCTGTGCTGGGAAGTTGCGTAGACAGTGGCCTCGAGACCCTGCCT GCCTGAGGAGGCCTCGGTTGGATGCGAAGGAGCTGCAGCATCCAGGGGACAAGATGCCAA CTGGCAAGCAGCTAGCTGACATTGGCTATAAGACCTTCTCTACCTCCATGATGCTTCTCA CTGTGTATGGGGGTACCTCTGCAGTGTCCGAGTCTACCACTATTTCCAGTGGCGCAGGG CCCAGCGCCAGGCCGAGAAGAAGACAGAACCTCAGGAATCATGTAGAACTGGGGGGCTT TTTCTCCTGAGCAGAGAGGCCCAAGGCATGCTGTGGAGAGACTTCACCTGCCACCATTTT CAGGTCAACAGGACTAGAGCGTTGATGGTTTTCAAACCTGTTGGAAGAAAGTGCCCATG GTTTCTCTGTTCTGCCAGTTTACAGTTTATGGAGGCTTTTGAATCGTAATAGCAATGT GAGGGGTGAGGTACACCTACAGACATTAATAATTTGCTGTGAAAAAAAAAAAAAAAAAAC TCGACTCTAAATTGGGGCCGCGGCTAAGCTGTTCTGAACAGATCCCCGNTGGCATCC CTGTGACCCCTTCCAGTGCCTCTCCTGCCCTGGGGAAGGTGCCACTCCAGTGCCACC AGCCTTGTCTATAAAAAATTAAGCTGCTCATTTTGCGCCCAAGGGCCCTCTAATT
5' Read Nucleotide Sequence:	



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032901 unedited GACCGCGGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTCACAGCAAATTATTT AATGTCTGTAGGTGTACCTCACCTCACATTGCTATTACGATTCAAAAGCCTCCATAAAC TGTCAACTGGCAGAACCAGAGAAACCATGGGCACTTTCTTCCAACAGGGTTTGAAAACC ATCAACGCTCTAGTCCTGTTGACCTGGAAATGGTGGCAGGTGAAGTCTCTCCACAGCATG CCTTGGGCCTCTCTGCTCAGGAGAAAAAGCCCCCAGTTCTACATGATTCTGAGGTCTT CTGTTCTTCTGCGGCCTGGCGCTGGGCCCTGCGCCACTGGAAATAGTGGTAGACTCGGAC ACTGCAGAGGTACCCCCATACACAGTGAGAAGCATCATGGAGGTAGAGAAGGTCTTATA GCCAATGTCAGCTAGCTGCTTGCCAGTTGGCATCTTGTCCTGATGCTGCAGCTCCTT CGCATCCAACCGAGGCCTCCTCAGGCAGGCAGGGTCTCGAGGCCACTGTCTACGCAACTT CCCAGCACAGCCGAACGCAGCACTCGGAACCAGACAGTGAGGGTAGCGTCCCTGGACAA CCCTGAACGCCTCAGCTATTGGTGCAGAAAGCAACTTTCTCCCTCCACCTGCCGGGTA GCCTCTAGGATTCGGCTTGCCGCGCTATAAAGCCTCGTGCCGAATTCGCGGCCGCCCTAT AGTGAGTCGTATACAAAATTCTGACGGGTCACTNAACGAGCTCTGCTATATAGACCTNGC ACGTACACGCCTACCGCCATTTGCGTCACGGGGCGGGGTATTACGACATCTTGAAAGTCC GTTGATTTGGTGCAAAACAACTCCATTGACTAATGGGGTGAGACTNGNAATCCCGTGAGT AACCGTTCCAGCCATTGTGTCTGCCAAACGCATACTGTATANCATACTATACGTAAGTCT GCAATAGAAACCCG
Restriction Sites:	NotI-NotI
ACCN:	NM_032901
Insert Size:	660 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:	<u>NM_032901.2</u> , <u>NP_116290.1</u>
RefSeq Size:	643 bp
RefSeq ORF:	174 bp
Locus ID:	84987
UniProt ID:	<u>Q96I36</u>
Cytogenetics:	12q13.12
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a small single-pass transmembrane protein that localizes to mitochondria. This protein may play a role in coordinating the early steps of cytochrome c oxidase (COX; also known as complex IV) subunit assembly and, in particular, the synthesis and assembly of the COX I subunit of the holoenzyme. Mutations in this gene have been associated with mitochondrial complex IV deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

Transcript Variant: This variant (1) represents the shortest transcript. Variants 1-3 encode the same protein.