

## Product datasheet for **SC116389**

### COX4NB (EMC8) (NM\_006067) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COX4NB (EMC8) (NM_006067) Human Untagged Clone
Tag:	Tag Free
Symbol:	COX4NB
Synonyms:	C16orf2; C16orf4; COX4NB; FAM158B; NOC4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116389 sequence for NM_006067 edited (data generated by NextGen Sequencing)

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ATGCCCGGGGTGAAACTGACCACCCAGGCCTACTGCAAGATGGTGTGCACGGCGCCAAG
TACCCGCACTGCGCCGTCAACGGGCTCCTGGTGGCCGAGAAGCAGAAGCCGCGTAAGGAG
CACCTCCCCTGGGCGGCCCGGCCACCCACCCCTTTCGTGGACTGCATCCCCCTC
TTCCACGGCACCCTGGCCCTCGCCCCATGCTGGAGGTGGCTCTCACCTGATTGATTCA
TGGTGCAAAGATCATAGCTACGTGATTGCTGGTTATTATCAAGCTAATGAGCGAGTAAAG
GATGCCAGTCAAACCAGGTTGCAGAGAAGGTGGCCTCCAGAATCGCCGAGGGCTTCAGC
GACTGCGCTCATCATGGTAGACAACCAAGTTTACGATGGACTGCGTAGCGCCTACG
ATCCACGTGTACGAGCACCATGAGAACAGATGGCGGTGCAGAGACCCACACCATGACTAC
TGTGAAGACTGGCCAGAGGCACAGAGGATCTCAGCCTCGCTCCTGGACAGCCGGTCTAC
GAGACGCTCGTGGATTTGATAACCACCTGGATGACATTCGGAATGACTGGACAAACCCA
GAGATCAATAAAGCTGTCTACACTTGTGCTAG
```

Clone variation with respect to NM\_006067.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006067 unedited</p> <pre> ACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGGCTGCGGCTTCCCAGAGGGC CGAGTCGCTTTTTCCAGGAGCCGAGGCCAAACGGGGCCGGGCTGAAGGGTCCCCGCCA GCCCGCGCCGCGCCATCAATCGCCGCCCTCGTCCCGCTTCTCGGTGAGGCGCCGCG CGGCCAGGCAGCGGGTCCAGGCTCAGCCGCGCGCCAGGGGCTCCGGGGCCCTCCCG GTCAGCATGCCCGGGGTAAAACGACCACCCAGGCCTACTGCAAGATGGTGTGCACGGC GCCAAGTACCCGCACTGCGCCGTCACCGGGCTCCTGGTGGCCGAGAAGCAGAAGCCGCGT AAGGAGCACCTCCCCTGGGCGGCCCGGCCACCACACCCTTCTCGTGGACTGCATC CCCCTTTCACGGCACCTGGCCCTCGCCCCATGCTGGAGGTGGCTCTCACCTGATT GATTCATGGTGCAAAGATCATAGCTACGTGATTGCTGGTTATTATCAAGCTAATGAGCGA GTAAAGGATGCCAGTCAAACCAGGTTGCAGAGAAGGTGGCTCCAGAATCGCCGAGGGC CTCAGCGACACTGCGCTCATGTTAGTACACCAAGTTTACGATGGACTGACTAGCG CCTACGATCCACGTGTACGAGCACCATGAGAACAGATGGCGGTGCAGAGACCCACCCAT GACTACTGTGAAGACTGGCCAGAGCACAGAGGATCTCAGCCTCGCCTCTGGACAGCCGT CCTACGAGACGCTCGTGGATTTCCATACCCACCTGGATGACATNCGGAATGACTGNGACA ACCCAAAGATCANTAAAGCTGTCTACACTTGGGCTAAGCAAGCACCGCTGTGACTGGGC TCCGGCCTTCCCTACCTTGAAGAAGAACAATTTTTTAAAGGTAAAAAATTCGTACGCT GGGTGAAG </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006067 unedited</p> <pre> TACCGACGGCCGATTCTAGNATCGAGTTTTTTTTTTTTTTTTTTTGGTGGATCAAATAAA GCACATTTATTGTAGCGATGTCTGAACTTTTTTCTATGTGTTAAGAGAAAATAGTGACC GCTGTATCACAAACCCTTTCAGGTCACACCGATCGTTACAAATTCCTCCATGGAGTCAAA GAAAAGACAGTAGGAAAGGTACCCTCTCTGAACTTTGTACAAAATAATTCATCGAAAAA GGAAAAAAGGTAAACGTACCATAAAGTTTCCCTCTCAATTCCTAAGGCTTGGTTACAAA ACTTGACCAAAATGTTCTAAGTATAAAAAGTACAGACGTCCTCTGCACAACCTCGGGAAGT CTAAGTCTTGTGTTTCTAATAACAAAAGAACGATCATTTCCCTTTCCTGGCCCTGCAGG CACGTGAGCTTTCTGCGTGGCTGAAGAGCACCACACTGAGCTCCTGCTACCAGAGATGAC TGCTCTTGCCCTAACGATAAAGGCTTTCGCGCATCAGTGGTGTCACTCCCGCTGGGCA GAGTTGCGGTGGCTCTGTGAGCCGACAATATGTGGAGCAGTGTGTTACAGCCCAGCCT ACCTGACCACAGAAACCCACACAGTAGCTTTTTTAAACAGCTCAGCACCAGCACTTCCAC GTGCTACCCTGATTCCAGGACCTCCTGGACTACATCAAAACTCAAACCGGATAAAAAC TCCCAAACCCCTCCTTGGAGTTAAGATGTGGGCTTTTTTTCTTTCTTACAAAACATA GCTCAAAAGCCTTACAAGTATTTTCTCTCACATATCTAAAGCTATCTAAAACCTGTTAAT AGGACCAATCTTGCCCCACAAAAAACTTTGATCTGGAGGATTTTGGACCTTACACCGG AAAAGCCCCGGGCGGCTAAACCGAATGTCGGCCTTTTTTAAAGACATCTGGGTA AAAAC CG </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006067
<b>Insert Size:</b>	1910 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_006067.3](#), [NP\\_006058.1](#)

**RefSeq Size:** 1941 bp

**RefSeq ORF:** 633 bp

**Locus ID:** 10328

**UniProt ID:** [O43402](#)

**Cytogenetics:** 16q24.1

**Domains:** UPF0172

**Gene Summary:** Part of the endoplasmic reticulum membrane protein complex (EMC) that enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed:30415835, PubMed:29809151, PubMed:29242231, PubMed:32459176, PubMed:32439656). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:30415835, PubMed:29809151, PubMed:29242231). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices (PubMed:30415835, PubMed:29809151). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:29809151, PubMed:29242231). By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N-terminus in the lumen of the ER, controls the topology of multi-pass membrane proteins like the G protein-coupled receptors (PubMed:30415835). By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes (Probable). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.