

Product datasheet for RG200296

COX4NB (EMC8) (NM_006067) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: COX4NB (EMC8) (NM_006067) Human Tagged ORF Clone Tag: TurboGFP COX4NB Symbol: Synonyms: C16orf2; C16orf4; COX4NB; FAM158B; NOC4 Mammalian Cell Neomycin Selection: Vector: pCMV6-AC-GFP (PS100010) E. coli Selection: Ampicillin (100 ug/mL) **ORF** Nucleotide >RG200296 representing NM_006067 Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCCGGGGTGAAACTGACCACCCAGGCCTACTGCAAGATGGTGCTGCACGGCGCCAAGTACCCGCACT GCGCCGTCAACGGGCTCCTGGTGGCCGAGAAGCAGAAGCCGCGTAAGGAGCACCTCCCCCTGGGCGGCCC CGGCGCCCACCACCCCTCTTCGTGGACTGCATCCCCCTCTTCCACGGCACCCTGGCCCTCGCCCCCATG CTGGAGGTGGCTCTCACCCTGATTGATTCATGGTGCAAAGATCATAGCTACGTGATTGCTGGTTATTATC AAGCTAATGAGCGAGTAAAGGATGCCAGTCCAAACCAGGTTGCAGAAAGGTGGCCTCCAGAATCGCCGA GGGCTTCAGCGACACTGCGCTCATCATGGTAGACAACACCAAGTTTACGATGGACTGCGTAGCGCCTACG ATCCACGTGTACGAGCACCATGAGAACAGATGGCGGTGCAGAGACCCACCACCATGACTACTGTGAAGACT GGCCAGAGGCACAGAGGATCTCAGCCTCGCTCCTGGACAGCCGGTCCTACGAGACGCTCGTGGATTTCGA TAACCACCTGGATGACATTCGGAATGACTGGACAAACCCAGAGATCAATAAAGCTGTCCTACACTTGTGC ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA >RG200296 representing NM_006067 **Protein Sequence:** Red=Cloning site Green=Tags(s) MPGVKLTTQAYCKMVLHGAKYPHCAVNGLLVAEKQKPRKEHLPLGGPGAHHTLFVDCIPLFHGTLALAPM LEVALTLIDSWCKDHSYVIAGYYQANERVKDASPNQVAEKVASRIAEGFSDTALIMVDNTKFTMDCVAPT IHVYEHHENRWRCRDPHHDYCEDWPEAQRISASLLDSRSYETLVDFDNHLDDIRNDWTNPEINKAVLHLC TRTRPLE - GFP Tag - V **Restriction Sites:** Sgfl-Mlul



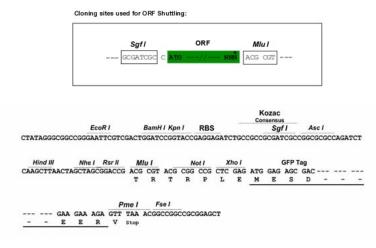
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Cloning Scheme:

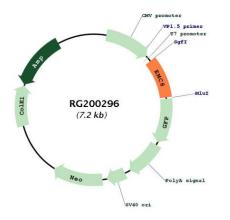


ACCN:	NM_006067
ORF Size:	630 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 006067.5</u>
RefSeq Size:	1941 bp
RefSeq ORF:	633 bp
Locus ID:	10328

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	COX4NB (EMC8) (NM_006067) Human Tagged ORF Clone – RG200296
UniProt ID:	<u>043402</u>
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]

Product images:



Circular map for RG200296

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