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Product datasheet for RG201154

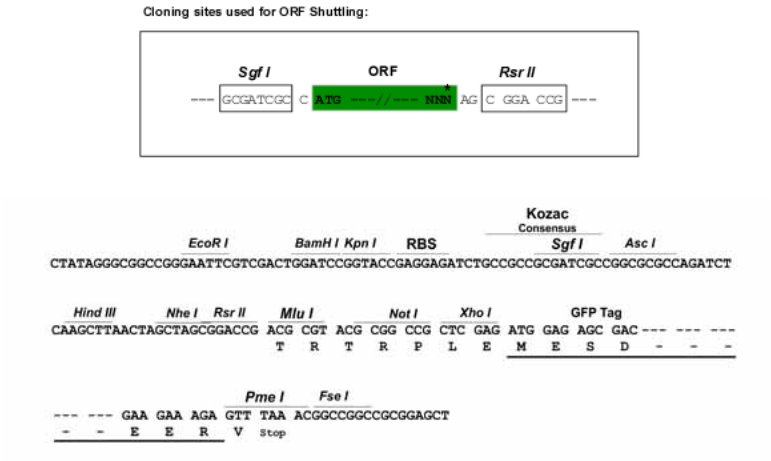
COX7A1 (NM_001864) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COX7A1 (NM_001864) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COX7A1
Synonyms:	COX7A; COX7AH; COX7AM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201154 representing NM_001864 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAGGCCCTTCGGGTGTCCCAGGCGCTGATCCGCTCCTTCAGCTCCACCGCCCGGAACCGCTTTCAGA ACCGAGTGCGCGAGAAACAGAAGCTCTTCCAGGAGGACAATGACATCCCGTTGTACCTGAAGGGCGGCAT CGTTGACAACATCCTGTACCGAGTGACAATGACGCTGTGTCTGGGCGGCACTGTCTACAGCTTGTACTCC CTTGGCTGGGCCTCCTTCCCCAGGAAT AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG201154 representing NM_001864 Red=Cloning site Green=Tags(s) MQALRVSQALIRSFSSTARNRFQNRVREKQKLFQEDNDIPLYLKGGIVDNILYRVTMTLCLGGTVYSLYS LGWASFPRN SGPTRTRRLE - GFP Tag - V
Restriction Sites:	SgfI-RsrII

View online »

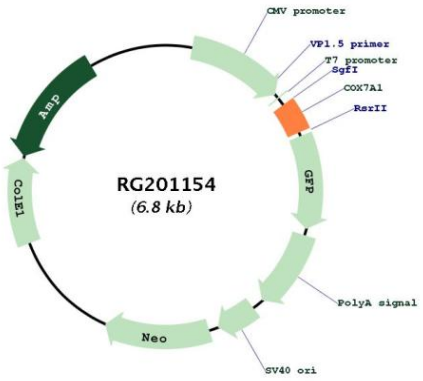
Cloning Scheme:



ACCN:	NM_001864
ORF Size:	237 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. More info
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:	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_001864.4
RefSeq Size:	783 bp

RefSeq ORF:	240 bp
Locus ID:	1346
UniProt ID:	P24310
Cytogenetics:	19q13.12
Protein Families:	Transmembrane
Protein Pathways:	Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Oxidative phosphorylation, Parkinson's disease
Gene Summary:	Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (muscle isoform) of subunit VIIa and the polypeptide 1 is present only in muscle tissues. Other polypeptides of subunit VIIa are present in both muscle and nonmuscle tissues, and are encoded by different genes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201154