

Product datasheet for **MG217851**

Cox8a (NM_007750) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cox8a (NM_007750) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cox8a
Synonyms: COX8L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG217851 representing NM_007750
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGTCTGACGCCACTGCTGCTGAGGAGCCTGACCGGCTCGGCCCGCGGCTCATGGTGCCGCGGG
CTCAGGTCCACTCGAAGCCGGCGGGAGCAGCTCGGGTCTGGATATCACCATTGGGCTCACTTCCTG
CTTCGTGTGTCTTCTGCCTGCGGGCTGGTCTGTACACCTGGAGAGCTACAAGAAGCGGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217851 representing NM_007750
Red=Cloning site Green=Tags(s)

MSVLTPLLLRSLTGSARRLMVPRAQVHSPAREQLGVLDITIGLTSCFVCLLPAGWVLSHLESYKKRE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:

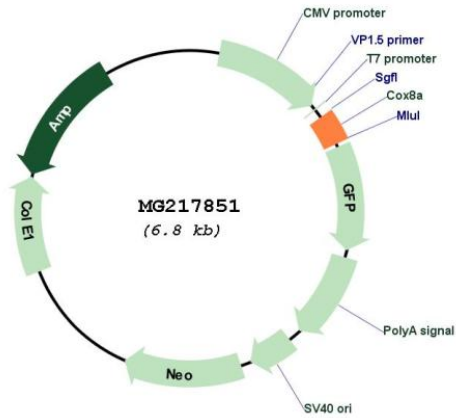


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          EcoR I      BamH I Kpn I      RBS      Kozac Consensus      Sgf I      Asc I
CTATAGGGGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCCGCCAGATCT

          Hind III      Nhe I  Rsr II      Mlu I      Not I      Xho I      GFP Tag
CAAGCTTAACTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC  GAG  ATG GAG AGC GAC -----
                        T R T R P L E M E S D - - - - -

          Pme I      Fse I
----- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT
      - - E E R V   Stop
```

Plasmid Map:



ACCN: NM_007750

ORF Size: 207 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:	<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:	NM_007750.2 , NP_031776.1
RefSeq Size:	545 bp
RefSeq ORF:	210 bp
Locus ID:	12868
UniProt ID:	Q64445
Cytogenetics:	19 A
Gene Summary:	This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.[UniProtKB/Swiss-Prot Function]