

Product datasheet for **MR207061**

Cox10 (NM_178379) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cox10 (NM_178379) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cox10
Synonyms:	2410004F01Rik; AU042636
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207061 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCGTCCCCGCACACCATTTCTCGCGCCTCTCACAGGCTCAGTAGGAGGATGTATCTGGTATT
 TAGAGAGAAGAGCTATACAGGGATTGCCACACAGGGTCACACGTCTGTTAGGAATGTCAGTAATCAGTG
 GGTACAGCTCCAGCACTTGAGCTTCTCAAGCGCATGTATGTCACACAGCTGCACAGGGCCCTTAGCCAG
 CGAGTCAAACAAAGCCAGAGCCACCGCGTCTCCTTTCTTGAACACACGTCTTCAGGGCAGGCTAGAG
 CGGACGAGGATGAGCTGCCGTCTTTCCAGCACCCAGTCGGCCTCTGTCCCGAAGCCAAATGAGGAGTT
 GGTGGAGCTGGAGGCGACCTCCATAGTGGACCATTCCCTCGACACAGCCAAAGAGAAAAAGGAAGAAAGG
 CAGTGAAAGAGATGAACTTCACACTGATGATCTGCCTGGCATTGTTGCCAGGCTGTCCAAGATCAAAC
 TCACAGCTCTTGGTAAGCACCACTTCAGCAGGCTTTCAGTGGCTCCAGGCCCTTTCAGCTGGTCTGT
 CTTCTGCTTACATCCCTTGAACCGGCCTCGCATCCTGTGCTGCCAACTCCATCAATCAGTTTTTTGAG
 GTGCCGTTTCGACTCAAACATGAATAGAACAAGAACAGGCCTCTGGTTCGAGGGCAGATAAGCCCATTTGC
 TAGCCGTGCTTTTGGCCCTGTGTGCTGTGCCAGGAGTGGCCCTTCTGACCTGGGGAGTGAATCCACT
 CACAGGGCCCTTGGGGTCTTCAACATTTTCTGTATACCTGTTGTTACACACCACTGAAGAGGGTCCAGC
 ATCACCAATACCTGGGTTGGAGCCGTGGTGGAGCCATCCCTCCTGTGATGGGCTGGACGGCCGCACTG
 GAAGCCTTGATGCTGGAGCGCTTCTTCTGGGAGGGATCCTGTACTCCTGGCAATCCCCCACTTCAATGC
 CCTGAGCTGGGGCCTCCGTGAAGACTACTCCCAGGAGGCTACTGTATGATGTCCGTACCCATCCAGCC
 CTCTGCCGGCGGTGGCACTGCCCACTGCCTGGCCCTGATTGCTCTGTGACTGCTGCCCGGTCTGG
 ACATACCACCTGGGTCTCCCTGTCTCCTCCCTCCCATCAACCTGTACATTTCTACCTCGGCTCCG
 CTTCTACGTGGACGCAGACCGCAGGAGCTCAAGGAACTGTTCTTCTGCAGCCTGTGGCACCTGCCGCTG
 CTCTGCTGCTCATGCTCACCTGTAAGCAGCGCCCGGGCAGGAGGGGACAAGGGAGAGGCTCCGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207061 protein sequence
 Red=Cloning site Green=Tags(s)

MAASPHTISSRLLTGSVGGCIWYLERRAIQGLPHRVTRLFRNVSNQWVTLQHL SFLKRMVYVQLHRGLSQ
 RVKPKPEPPASPFL EHTSSGQARADEDELPSFPAPSRPLSRKPNEELVELEATSIVDHS LDTAKEKKEER
 QWKEMKLHTDDLPGILARLSKIKLTALVVSTTSAGFALAPGPFDWSCFLLSLGTGLASCAANSINQFFE
 VPFDSNMNRTKNRPLVRGQISPLLAVSFATCCAVPGVALLTWGVNPLTGALGVFNIFLYTCCYTPLKRVS
 ITNTWVGAVVGAIPPVMGWTAATGSLDAGALLGGILYSWQFPHFNALSWGLREDYSRGGYCMMSVTHPA
 LCRRVALRHCLALIALSTAAPVLDITTWVFPVISLPINLYISYLGFRFYVDARRSSRKLFFCSLWHLPL
 LLLLMLTCKQRPGEQDKGEAPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_178379

ORF Size: 1332 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_178379.3](#)
RefSeq Size: 2921 bp

RefSeq ORF: 1332 bp

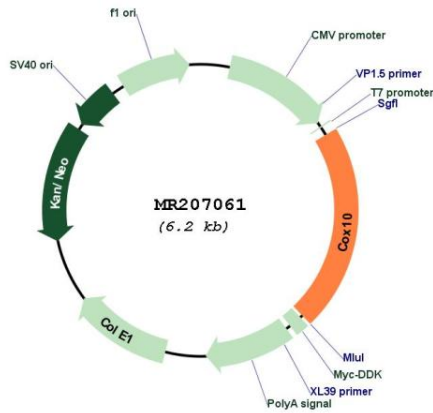
Locus ID: 70383

UniProt ID: [Q8CFY5](#)
Cytogenetics: 11 B3

MW: 48.9 kDa

Gene Summary: Converts protoheme IX and farnesyl diphosphate to heme O.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207061