

## Product datasheet for **MR228255**

### Cox4i1 (NM\_001293559) Mouse Tagged ORF Clone

#### Product data:

|                    |                                                   |
|--------------------|---------------------------------------------------|
| Product Type:      | Expression Plasmids                               |
| Tag:               | Myc-DDK                                           |
| Symbol:            | Cox4i1                                            |
| Synonyms:          | AL024441; COX; Cox4; Cox4a; COXIV; COX IV-1; IV-1 |
| Mammalian Cell     | Neomycin                                          |
| Selection:         |                                                   |
| Vector:            | pCMV6-Entry (PS100001)                            |
| E. coli Selection: | Kanamycin (25 ug/mL)                              |

**ORF Nucleotide Sequence:** >MR228255 representing NM\_001293559  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTTGGCTTCCAGAGCGCTGAGCCTGATTGGCAAGAGAGCCATTTCTACTTCGGTGTGCCTTCGAGCAC  
ATGGGAGTGTGTGAAGAGTGAAGACTATGCTTTCCCACTTACGCTGATCGGCGTGACTACCCCTTGCC  
TGATGTGGCCCATGTACGATGCTGTCTGCCAGCCAGAAGGCGCTGAAGGAGAAGGAGAAGGCCGACTGG  
AGCAGCCTTCCAGGGATGAGAAAGTTCAGTTGTACCGCATCCAGTTTAACGAGAGCTTCGCCGAGATGA  
ACAGGGGCACCAATGAATGGAAGACAGTTGTGGGCATGGCCATGTTCTTCATTGGCTTCACTGCGCTCGT  
TCTGATTTGGGAGAAGAGCTATGTGTATGGCCCATCCCTCATACTTTCGATCGTGACTGGGTGGCCATG  
CAGACCAAGCGAATGCTGGACATGAAGGCCAACCCATTAGGGCTTCTCCGCAAGTGGGACTATGACA  
AGAATGAGTGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228255 representing NM\_001293559  
Red=Cloning site Green=Tags(s)

MLASRALSLIGKRAISTSVCLRAHGVSVKSEDIYAFPTYADRRDYPLPDVAHVMTLSASQKALKEKEKADW  
SSLRDEKVLRIQFNESFAEMNRGTNEWKTVMAMFFIGFTALVLIWEKSYVYGPVPHTFDRDWVAM  
QTKRMLDMKANPIQGFSAKWDYDKNEWKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



## Cloning Scheme:



ACCN: NM\_001293559

ORF Size: 507 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_001293559.1](#), [NP\\_001280488.1](#)

RefSeq Size: 687 bp

RefSeq ORF: 510 bp

Locus ID: 12857

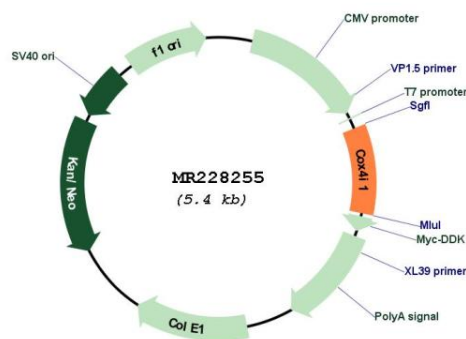
UniProt ID: [P19783](#)

Cytogenetics: 8 69.99 cM

MW: 19.5 kDa

**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]

### Product images:



Circular map for MR228255