

## Product datasheet for **MR224086**

### Cox7a2l (NM\_009187) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cox7a2l (NM\_009187) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cox7a2l  
**Synonyms:** COX7AR; COX7RP; EB1; SIG-81; SIG81; Silg81  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR224086 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATG**TACTACAAGTTTAGCAGTTTCACGCAGAAGTTGGCTGGAGCTTGGGCTTCGGAAGCCTACACCCGC  
AGGGGTTAAAGCCAGTTCCACAGAAGCACCACTATCATATTTGCCACCAACCAAAGTACCTCCAG  
TGTGACAGCATATGATTATTCTGGGAAGAACAAGTTCCAGAGCTGCAGAAGTTTTCCAGAAGGCTGAT  
GGTTTCCACCTGAAACGAGGCCTTCCAGACCAAATGCTTTACCGACCACCATGGCTCTGACACTGGGAG  
GGACCATCTACTGCCTGATCGCCCTCTACATGGCCTCGCAGCCAGAAACAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR224086 protein sequence  
**Red=Cloning site Green=Tags(s)**

MYYKFSSFTQKLAGAWASEAYTPQGLKPVSTEAPPIIFATPTKLTSSVTAYDYSGKKNKVPQLQKFFQKAD  
GFHLKRGLPDQMLYRTTMALTLGGTIYCLIALYMASQPRNK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

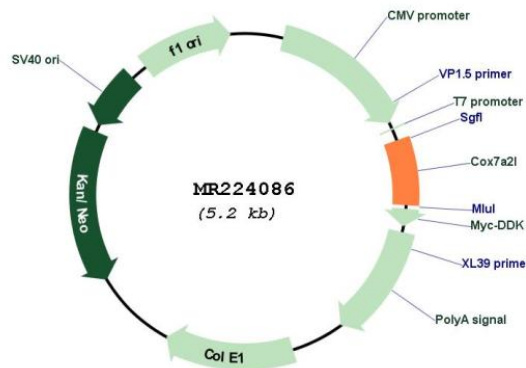


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_009187

ORF Size: 333 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009187.3</a> , <a href="#">NP_033213.1</a>
<b>RefSeq Size:</b>	1100 bp
<b>RefSeq ORF:</b>	336 bp
<b>Locus ID:</b>	20463
<b>UniProt ID:</b>	<a href="#">Q61387</a>
<b>Cytogenetics:</b>	17 E4
<b>MW:</b>	12.4 kDa
<b>Gene Summary:</b>	Involved in the regulation of oxidative phosphorylation and energy metabolism (PubMed:23857330, PubMed:23812712). Necessary for the assembly of mitochondrial respiratory supercomplex (PubMed:23857330, PubMed:23812712).[UniProtKB/Swiss-Prot Function]