

Product datasheet for MR206465

Oxa1l (BC027191) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oxa1l (BC027191) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oxa1l
Synonyms:	1810020M02Rik; A1894287
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206465 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGGAATTTAGTGTGCGGTGCTGGCAGCTTCTGCGACTCCTACGACTCCAGCGTTCGTACCATA
GCGTCGCAGTGTCCCTGAGACCGCTGGCCGCCGAGCTCCTCGCAGCCCGCCGGAGTAACGGGCGGCCACC
CTATGCTCTTCTCGCCGTCTTCACTCCTCGCTGCATCAGTACATCTGCCACCCTCTTTCGAGAAGCCAG
GTCCAGGCACCCCTGTTGTTCTGCTACCTCTATCCCTGCTGCAGTACCAGAGGTAGCTTCTGGAGGAG
CTGCAGATGTAGTCCAGTGTGCTACCGAACTGAGCTTACAGAACTGGGCTGCCGTGGTGGGAGCCAT
TGCCACGTGACTGTCCCTTGCCCGATGCCTCGTTTTTCCTCTCATTGTGAAGGGCCAGCGAGAAGCAGCC
AAGATCCACAACCACATGCCAGAGATGCAGAAGTTTTCCGCTCGAATCAGAGAGGCCAAGTTGGCCGGAG
ACCAGGCTGAGTTTTACAAGGCCACCATAGAGATGACACGCTATCAGAAAAAGCATGATATTAACCTCTT
GAGACCGCTCATCCTACCTCTCACTCAGGCCCCCGTCTTCATCTCCTTCTTTATTGCCTTGAGAGAGATG
GCCAACCTGCCTGTGCCAGCCTCCAGACAGGTGGGCTCTGGTGGTCCAAGATCTACCGTGTCTGATC
CCATCTACGTCTTGCCACTGGTAGTCACTGCCACAATGTGGTGTGTCCTTGAGCTAGGTGCTGAGACAGG
TGTTCCAGAGCAATGACCTTCAGTTCATGAGGAACATTATCAGGGTATGCCCTGGTGGTCTTGCCTGTG
ACCATCCACTTCCCCTCGGCAGTGTTCATGTACTGGCTGTCCCAACGTGTTCTCCCTGTGCCAAGTATG
CCTGCCCTCCGGATTCAGCTGTGCGCACAGTGTGAAGATCCCCCAGCGAGTCGTACATGACCCTGACAA
ATTGCCTCCTAGGGAAGGCTTCTGAAGAGCTTCAAAAAAGGCTGGAAGAACGCTGAAATTGCACAGCAG
CTCCGAGAGCGGGAGCAGCGAATGCAGAAACACTTGGACCTGGCTGCCAGGGTCCCTTACGACAGACTT
TTACACACAACCCTCTGCTGCAGCATGATCCAAGTCACCCCCGAAAGCTCCCAACAGCAACAACAGCAG
CATCAAAGCAAACGAAAGAAGCCTTGGCAAGACACACTCGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206465 protein sequence
Red=Cloning site Green=Tags(s)

MARNLVCGRWQLRLRLQRSYHSVAVSLRPLAAELLAARRSNGRPPYALLAVFTPRCISTSATLFAEAQ
 VQAPPVVPATSIIPAAVPEVASGGAADVQCATELSFTELGLPWWGAIATCTVLARCLVFPLIVKGQREAA
 KIHNMPEMQKFSARIREAKLAGDQAEFYKATIEMTRYQKKHDIKLLRPLILPLTQAPVIFSFIALREM
 ANLPVPSLQTGGLWWFQDLTVSDPIYVLPVVTATMWCVLELGAETGVQSNLQFMRNIIRVMPLVVLV
 TIHFPSAVFMYWLLSSNVFSLCQVACLRIIPAVRTVLKIPQRVVHDPDKLPREGFLKSFKKGWKNAEIAQQ
 LREREQRMQKHLDAARGPLRQTFTHNPLLQHDPSHPPKAPNSNNSSIKANAKKPWQDTLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC027191

ORF Size: 1233 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: [BC027191](#), [AAH27191](#)

RefSeq Size: 1478 bp

RefSeq ORF: 1235 bp

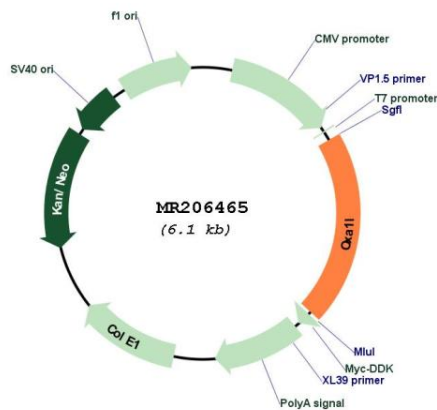
Locus ID: 69089

Cytogenetics: 14 C2

MW: 45.9 kDa

Gene Summary: Required for the insertion of integral membrane proteins into the mitochondrial inner membrane. Essential for the activity and assembly of cytochrome oxidase. Required for the correct biogenesis of ATP synthase and complex I in mitochondria (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206465