

Product datasheet for **RR214961**

Oma1 (NM_001106669) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Oma1 (NM_001106669) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Oma1 |
| Synonyms: | RGD1304821 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RR214961 representing NM_001106669
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCTCCTTTATGGACTGCAGTCTGCCACAAGAAATCAGTTTCTCTCTGGAGTGAATACGCTGGCCC
 GCAGGAGAACGTGGACCCACCAGCAGGCTGTCCACTGGCATCGAGGCTCCACGAGTAAATGCAAACCTG
 GGGACTTAGCACAGTCAGTCACTGTTATTTCAGTGATCTTACTGCCAGAAACCTTCATTTCTGTAGGACT
 CTCAAGAACAAGATCAAGATGCCTCTCAAGTGCCAAAGCAAGGAAATGGGGGTCTCACCTACAATT
 GGACGGTTTGGGGTGATGCCTCATGTTCTCCGAATATGCCGCCATAAGAGAGGTCCGGAGTTTCCACAC
 ATCTGCGCCACGTCAGGCCGCTCCAGTCCCTCTTTGATGCTCATTCTGAAACCAGTGCAAAAGCTCCTT
 GCTATCATTGTGGCAGGGGCATAAGGAAATGGTGGCAAGCACTCCCCCTGACAAGAAGGCGCTATTTA
 AAGACAGCGTGAAGAGGAACAAGTGGAGGCTGCTCCTTGGTCTGAGTGCCTTTGGACTGCTGTTTGGT
 GTTTTATTTCACTCACCTGGAAGTGAGCCCTGCTACTGGAAGGAGCAAACACTGTTAGTGGGAAAGAA
 CACTTCAGACTCCTGTCAGACCTGGAATATGAAGTGTGGATGGAAGAGTTAAAAATGATCTGCTGCCTG
 AGGAAGACCCCGGTACCTGACTGTCAAGAAGGTGGTTTATCATCTAACACAGTGAATCAAGATGTCCC
 AGGGGTCTCTGAGATCAACTGGGTGGTTCACGTGGTCCATTTCGCCAAGGTCAATGCCTTCGTGCTTCCA
 AACGGACAAGTGTGTTTCTCACTGGGCTTTTGAATAGCGTGACCGATATGCACCAGCTTTCCTTCTCCTC
 TGGGCCATGAGATCGCGCATGCGGTCTGGGGCATGCCGAGAAAAGGCTAGCTTGGTTCATTTACTGGA
 TTTCTTGGCATGATTTTCTCAATGATTTGGGCCATTTGTCCAAGAGACAGCTTGGCAGTCTGGGC
 CAGTGGATACAGTCAAAGTTGCAGGAGTATATGTTTGTAGACCATACAGTAGAACATTTGGAGCCGAAG
 CTGACAAAATTGGACTACAGCTGGCTGCAAAGGCATGTGTGGAGTAAAGAGCTAGTTCAGTGTGTTGGCA
 GCAGATGGAGTTCTCAGAGAGCCTTCATGGCTACCCCAAGTTGCCAGAGTGGCTATCAACACATCCTTCT
 CACGGGAACCGAGCTGAGTACTTGGACAGACTCATACCACAGGCTCTCAAACCTCGGGAGGTCTGTAAAT
 GCCCACCCTCTCTGGACCAGACCCTCGGTTACTGTTCACTTACTGTGAAACATTTACTTGAAGACTC
 CGAGAAAGAGGACCTAACATCACTGTCAAAAAGCAGAAACCGGATGCTCTGCCATTGAGAAGCAGGAG
 CAGATACCACTGACATACGCACTTGGGAAAAGAACTGCAGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214961 representing NM_001106669
 Red=Cloning site Green=Tags(s)

MNFLYGLQSATRNQFLSGVNTLARRRTWTPPAGCPLASRLPAVNANWGLSTVSHCYSVILLPRNLHFCRT
 LKNKRSRCLSSAQSKEMGVLTYNWTVWGDASCSPNYAAIREVRSFHTSAPRQAAPVPLMLILKPVQKLL
 AIIVGRGIRKWWQALPPDKKALFKDSVKRNKWRLLGLSAFGLLFVVFYFTHLEVPVTGRSKLLLVGKE
 HFRLLSDLEYEVWMEEFKNDLLPEEDPRYLTVKKVYVYHLTQCNQDVPVSEINWVHVHVHSPKVNAPVLP
 NGQVVFVFTGLNSVTDHQLSFLLGHEIAHAVLGHAAEKASLVHLLDFLGMIFLMIWAICPRDSLAVLG
 QWIQSKLQEQYMFDRPYSRTLEAEADKIGLQLAAKACVDVRASSVFWQQMEFSESLHGYPKLEPEWLSHPS
 HGNRAEYLDRLIPQALKLREVCNCPPLSGPDRLLFRLTVKHLLLEDSEKEDLNITVKKQKPDALPIQKQE
 QIPLTYALGKRTAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

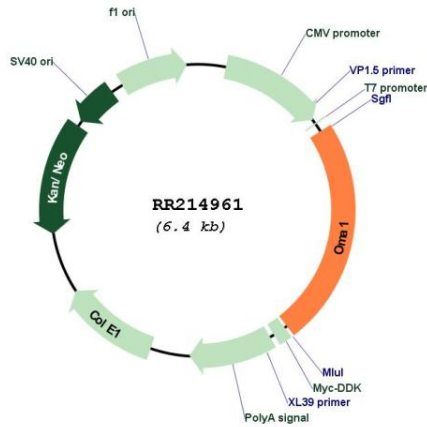
Restriction Sites:

Sgfl-MluI

MW: 57.1 kDa

Gene Summary: Metalloprotease that is part of the quality control system in the inner membrane of mitochondria. Following stress conditions that induce loss of mitochondrial membrane potential, mediates cleavage of OPA1 at S1 position, leading to OPA1 inactivation and negative regulation of mitochondrial fusion. May also cleave UQCC3 under these conditions. Its role in mitochondrial quality control is essential for regulating lipid metabolism as well as to maintain body temperature and energy expenditure under cold-stress conditions. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR214961