

Product datasheet for RC202959

OPA3 (NM 025136) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: OPA3 (NM_025136) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: OPA3

Synonyms: MGA3

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC202959 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGTGGTGGCGCGCTTCCCTATGGCGAAGCTGCTATACTTGGGCATCCGGCAGGTCAGCAAGCCGCTTG
CCAACCGTATTAAGGAGGCCGCCCGCCGAAGCGAGTTCTTCAAGACCTATATCTGCCTCCCGCCGGCTCA
ACTGTATCACTGGGTGGAGATGCGGACCAAGATGCGCATCATGGGCTTCCGGGGCACCGGTCATCAAGCCG
CTGAACGAGGAGGCGGCAGCCGAGCTGGGCGCAGAGCTGCTGGGCGAAGCCACCATCTTCATCGTGGGCG
GCGGCTGCCTAGTGCTGGAGTACTGGCGCACCAGGCGCAGCAGCACAAAGGAGGAGGAGCAGCGTGC
TGCCTGGAACGCGCTGCGGGACGAGGTGGCCACCTGGCGCTGGAAGCGCTGCAGGCGCAGGTG
CAGGCGGCCCCCCACAGGGCGCCCCTGGAGGAACTGCCACAGAGCTGCAAGAGGTGCGCCCCAGCTCT

GCAATCCCGGCCGGTCCGCTTCCCACGCAGTGCCTGCGTCCAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202959 protein sequence

Red=Cloning site Green=Tags(s)

MVVGAFPMAKLLYLGIRQVSKPLANRIKEAARRSEFFKTYICLPPAQLYHWVEMRTKMRIMGFRGTVIKP LNEEAAAELGAELLGEATIFIVGGGCLVLEYWRHQAQORHKEEEQRAAWNALRDEVGHLALALEALQAQV

QAAPPQGALEELRTELQEVRAQLCNPGRSASHAVPASKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6411 h06.zip



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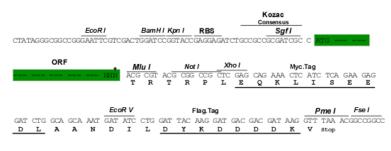


Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_025136

ORF Size: 537 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 025136.1, NP 079412.1

 RefSeq Size:
 7889 bp

 RefSeq ORF:
 540 bp

 Locus ID:
 80207

 UniProt ID:
 Q9H6K4



Cytogenetics: 19q13.32

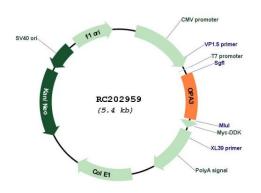
MW: 20 kDa

Gene Summary: The mouse ortholog of this protein co-purifies with the mitochondrial inner membrane.

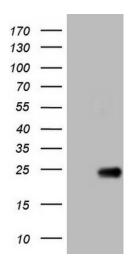
Mutations in this gene have been shown to result in 3-methylglutaconic aciduria type III and autosomal dominant optic atrophy and cataract. Multiple transcript variants encoding

different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

Product images:

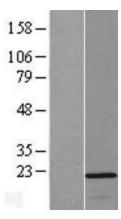


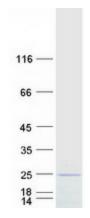
Circular map for RC202959



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY OPA3 (Cat# RC202959, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-OPA3 (Cat# [TA809426])(1:2000). Positive lysates [LY410876] (100ug) and [LC410876] (20ug) can be purchased separately from OriGene.







Western blot validation of overexpression lysate (Cat# [LY410876]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202959 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified OPA3 protein (Cat# [TP302959]). The protein was produced from HEK293T cells transfected with OPA3 cDNA clone (Cat# RC202959) using MegaTran 2.0 (Cat# [TT210002]).