

Product datasheet for RC216908

Ovary specific acidic protein (MGARP) (NM_032623) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ovary specific acidic protein (MGARP) (NM_032623) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ovary specific acidic protein
Synonyms:	C4orf49; CESP-1; HUMMR; OSAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216908 representing NM_032623 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATCTCCGCAGGGCGGTCTCCAAGACTCTGGCGCTGCCGCTGAGGGCGCCCCAACCCGCGCCGC
TCGAAAGGACGCATCTCTGCGCCGGATGTCATCTAACAGATTCCTGGATCATCTGGATCAAATATGAT
TTATTATCTGGTTGTAGGCGTCACAGTCAGTGTGGTGGATATTATGCTTACAAGACAGTCACATCAGAC
CAAGCCAAACACACAGAACATAAAACAAATTTGAAAGAAAAACAAAAGCAGAGATACATCCATTTCAAG
GTGAAAAGGAGAATGTTGCGGAACTGAGAAAGCAAGTTCAGAAGCCCCAGAAGAACTTATAGTGAAGC
TGAGGTGGTAGATGCTGAAGAAAGTCCCAGTGTACAGTTGTGGTCATAAAAGAGGCATCTGCCTGTCCA
GGTCACGTGGAGGCTGCTCCGGAGACCACAGCAGTCAGTGTGAAACCGGCCAGAGGTCACAGATGCAG
CGGCGAGGGAAACCACGGAAGTAAACCCTGAAACAACCCAGAGGTTACAATGCTGCCCTGGATGAAGC
TGTCAACATCGATAATGATAAAGATACAACAAAGAACGAAACCTCTGATGAATATGCTGAACTAGAAGAA
GAAAATCTCCAGCTGAGTCAGAGTCCTCTGCTGGAGATGATTTACAGGAGGAAGCCAGTGTGGCTCTG
AGGCTGCTTCGGCTCAAGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216908 representing NM_032623
 Red=Cloning site Green=Tags(s)

MYLRRRAVSKTLALPLRAPPNPAPLGKDasLRRMSSNRFPGSSGSNMIYYLVVGVTVSAGGYAYKTVTSD
 QAKHTEHKTNLKEKTKAEIHPFQGEKENVAETEKASSEAPEELIVEAEVVDAAEESPSATVVVIKEASACP
 GHVEAAPETTAVSAETGPEVTDAAARETTEVNPETTPVETNAALDEAVTIDNDKDTTKNETSDEYAELEE
 ENSPAESESAGDDLQEEASVGEAASAQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8108_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032623

ORF Size: 720 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_032623.4](#)

RefSeq Size: 1219 bp

RefSeq ORF: 723 bp

Locus ID: 84709

UniProt ID: [Q8TDB4](#)

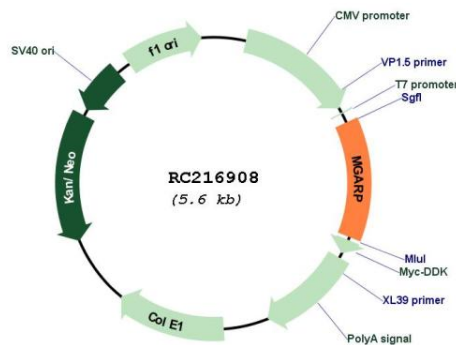
Cytogenetics: 4q31.1

Protein Families: Transmembrane

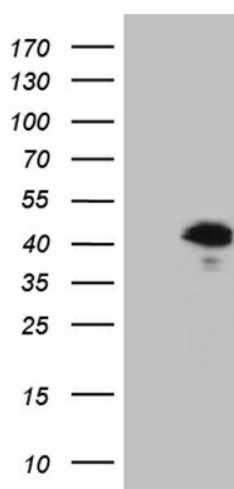
MW: 25.2 kDa

Gene Summary: Plays a role in the trafficking of mitochondria along microtubules. Regulates the kinesin-mediated axonal transport of mitochondria to nerve terminals along microtubules during hypoxia. Participates in the translocation of TRAK2/GRIF1 from the cytoplasm to the mitochondrion. Also plays a role in steroidogenesis through maintenance of mitochondrial abundance and morphology (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216908



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MGARP (Cat# RC216908, 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-MGARP (Cat# [TA811805])(1:2000).