

Product datasheet for **RG216908**

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:	TurboGFP
Symbol:	MGARP
Synonyms:	C4orf49; CESP-1; HUMMR; OSAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216908 representing NM_032623 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGTATCTCCGCAGGGCGGTCTCCAAGACTCTGGCGCTGCCGCTGAGGGCGCCCCAACCCGCGCCGC
TCGAAAGGACGCATCTCTGCGCCGGATGTCATCTAACAGATTCCTGGATCATCTGGATCAAATATGAT
TTATTATCTGGTTGTAGGCGTCACAGTCAGTGGTGGATATTATGCTTACAAGACAGTCACATCAGAC
CAAGCCAAACACACAGAACATAAAACAAATTTGAAAGAAAAACAAAAGCAGAGATACATCCATTTCAAG
GTGAAAAGGAGAATGTTGCGGAACTGAGAAAGCAAGTTCAGAAGCCCCAGAAGAACTTATAGTGAAGC
TGAGGTGGTAGATGCTGAAGAAAGTCCCAGTGTACAGTTGTGGTCATAAAAGAGGCATCTGCCTGTCCA
GGTCACGTGGAGGCTGCTCCGGAGACCACAGCAGTCAGTGTGAAACCGGCCAGAGGTCACAGATGCAG
CGGCGAGGGAAACCACGGAAGTAAACCCTGAAACAACCCAGAGGTTACAATGCTGCCCTGGATGAAGC
TGTCAACATCGATAATGATAAAGATACAACAAAGAACGAAACCTCTGATGAATATGCTGAACTAGAAGAA
GAAAATTCTCCAGCTGAGTCAGAGTCCTCTGCTGGAGATGATTTACAGGAGGAAGCCAGTGTGGCTCTG
AGGCTGCTTCGGCTCAAAGGGCGAATCTCCAGCCGGTAGACATTCAGCAACAAATGCCATAGGGTGTCT
GATAAGTGCTTTTGTGTTTTTAGTACACTTAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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 Red=Cloning site Green=Tags(s)

MYLRRRAVSKTLALPLRAPNPAPLGKDAASLRMSSNRFPGSSGSNMIYYLVVGVTVSAGGYAYKTVTSD
 QAKHTEHKTNLKEKTKAEIHPFQGEKENVAETEKASSEAPEELIVEAEVVDAAEESPSATVVVIKEASACP
 GHVEAAPETTAVSAETGPEVTDAAARETTEVNPETTPEVTNAALDEAVTIDNDKDTTKNETSDEYAELEE
 ENSPAESESAGDDLQEEASVGSEAAASAQRANLQPVDISATNAIGCLISAFVFLVHLV

TRTRPLE - GFP Tag - V

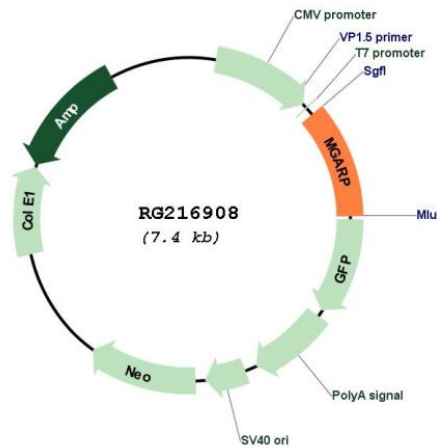
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_032623

ORF Size: 804 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:	<ol style="list-style-type: none"> 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_032623.2
RefSeq Size:	1339 bp
RefSeq ORF:	723 bp
Locus ID:	84709
UniProt ID:	Q8TDB4
Cytogenetics:	4q31.1
Protein Families:	Transmembrane
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]