

Product datasheet for **SC305491**

Ovary specific acidic protein (MGARP) (NM_032623) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ovary specific acidic protein (MGARP) (NM_032623) Human Untagged Clone
Tag:	Tag Free
Symbol:	MGARP
Synonyms:	C4orf49; CESP-1; HUMMR; OSAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305491 representing NM_032623. Blue=Insert sequence Red=Cloning site Green=Tag(s)

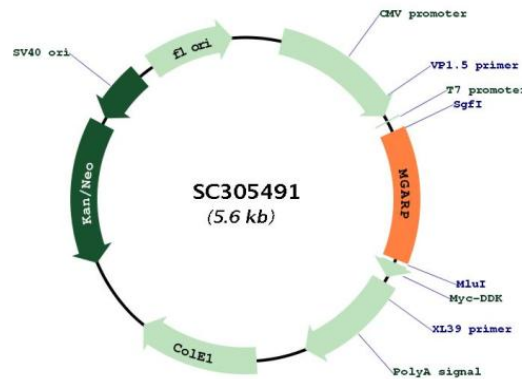
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GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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CTCGGAAAGGACGCATCTCTGCGCCGGATGTCATCTAACAGATCCCTGGATCATCTGGATCAAATATG
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GACCAAGCCAAACACACAGAACAATAAAACAAATTTGAAAGAAAAACAAAAGCAGAGATACATCCATTT
CAAGGTGAAAAGGAGAATGTTGCGGAACTGAGAAAGCAAGTTCAGAAGCCCAGAAGAAGTATAGTG
GAAGCTGAGGTGGTAGATGCTGAAGAAAGTCCCAGTGCTACAGTTGTGGTCATAAAAGAGGCATCTGCC
TGTCCAGGTACGTGGAGGCTGCTCCGGAGACCACAGCAGTCAGTGCTGAAACCGGGCCAGAGGTCACA
GATGCAGCGGCGAGGGAAACCACGGAAGTAAACCTGAAACAACCCAGAGGTTACAAATGCTGCCCTG
GATGAAGCTGTCACCATCGATAATGATAAAGATACAACAAGAACGAAACCTCTGATGAATATGCTGAA
CTAGAAGAAGAAAATTCTCCAGCTGAGTCAGAGTCCTCTGCTGGAGATGATTTACAGGAGGAAGCCAGT
GTTGGCTCTGAGGCTGCTTCGGCTCAAGGCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:



ACCN: NM_032623

Insert Size: 723 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_032623.3](#)

RefSeq Size: 1339 bp

RefSeq ORF: 723 bp

Locus ID: 84709

UniProt ID: [Q8TDB4](#)

Cytogenetics: 4q31.1

Protein Families: Transmembrane

MW: 25.4 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]