OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR221693

Ovgp1 (NM_007696) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ovgp1 (NM_007696) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ovgp1
Synonyms:	120kDa; AU016433; AU019448; Chit5; MOGP; muc9; OGP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR221693 representing NM_007696, codon optimized.
Due to the complexity of NM_007696, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAGGCTGTTGCTCCTGGCTGGTCTGGTGCTCCTGATGAAGCATAGCGACGGGACAGCTTACAAGC
TGGTGTGTTACTTCACCAATTGGGCTCATAGCAGGCCGGGGCCGGCATCTATAATGCCCCACGATCTTGA
CCCTTTTTTGTGCACTCACCTGATCTTTGCCTTCGCCTCCATGAGCAACAATCAGATTGTGGCAAAGAAC
CTGCAAGATGAGAACGTGCTTTATCCAGAGTTTAATAAGCTGAAGGAGAGAAACAGGGAGTTGAAAACAC
TTCTGTCCATCGGGGGATGGAACTTTGGTACTAGCCGCTTCACAGCAATGCTGAGCACTCTGGCAAACAG
GGAAAAATTTATTGACTCCGTGATCTCCTTCCTGCGCATCCATGGATTCGATGGATTGGATCTCTTTTTT
CTGTACCCCGGATTGAGGGGCTCCCCCCCACATGACCGCTGGAATTTCCTCTTCCTGATCGAAGAGTTGC
AATTCGCATTCGAACGCGAGGCCCTGCTGACACAGCATCCTAGGCTGTTGCTCAGCGCAGCTGTATCAGG
CATCCCCAGTATTATACACACGTCTTACGATGCCCTGCTGCTGGGACGAAGGCTCGATTTCATTAACGTG
CTGTCATACGACCTCCATGGCTCCTGGGAGAAGTTCACTGGACATAATTCCCCTTTGTTTTCACTGCCTG
AAGACAGCAAGAGCAGCGCCTATGCCATGAACTACTGGCGGAAACTTGGCACACCTGCAGACAAACTGAT
TATGGGCTTCCCAACCTACGGCCGGAACTTTTACCTCTTGAAGGAGAGCAAAAACGGACTTCAGACGGCT
AGCATGGGTCCTGCATCCCCTGGAAAGTACACCAAACAGGCGGGCTTCCTTGCATATTACGAGGTGTGTT
CCTTCGTGCAGCGCGCCAAAAAACACTGGATCGACTACCAGTATGTACCCTATGCGTTCAAGGGTAAAGA
ATGGTTGGGCTATGATGACACTATCAGTTTTTCCTATAAAGCGATGTACGTGAAGAGGGAACATTTTGGC
GGAGCCATGGTGTGGACGCTTGACATGGATGACGTGAGGGGAACCTTCTGCGGGAACGGCCCATTTCCAC
TGGTGCACATACTCAACGAACTGCTGGTCCAGACCGAATCCAATTCAACCCCCCTCCCTCAGTTCTGGTT
TACTTCCAGTGTCAACGCTTCAGGCCCCGGGTCTGAGAATACCGCGCTCACAGAGGTTCTGACTACCGAC
ACCATTAAAATTTTGCCTCCCGGAGGTGAGGCAATGACCACTGAGGTGCATAGACGATACGAAAACATGA
CCACAGTCCCATCAGATGGCTCCGTGACACCTGGAGGAACAGCCTCCCCACGCAAACACGCCGTGACTCC
CGAGAATAATACTATGGCCGCCGAAGCAAAGACTATGTCAACACTGGATTTCTTCTCCAAGACGACAACT
GGGGTGAGTAAAACAACTACAGGGATTTCAAAGACCACAACCGGGGTCAGTAAGACAACTACCGGAGTGT
CCAAAGCAACCGCAGGCATTAGCAAGACAATACCCGAAATCTCAAAGGCAACCGCCGGGGTAAGCAAGAC
CACTACAGGCGTATCTAAGACCACTACGGGCATTTCTAAGACTATAACCGGGGTGTCTAAAACTACAACC
GGAATCTCTAAAACCACCACTGGCATAAGCAAAACTACTACGGGAGTGTCCAAGATTACTACTGGCGTCT
CCAAAACTACTACAGGCATCAGTAAGACAACCACGGGCATCTCTCAGACAACTACTGGGATCAGCAAGAC
AACTACAGATATCAGTAAGACGACCACCGGCATCTCCAAGACAACTCCCGGTATCTCAAAAACCACACCT
GGAATGACAGTAATCGTTCAGACCCAGGCTAATGAGGCTGAGACAACCGCAACAATGGACCACCAGAGCG
TGACGCCCACAGAGATGGATACAACCCTTTTTTATCTCAAGACCATGACCCCTAGTGAAAAGGAGACATC
TCGGAAGAAAACTATGGTGCTTGAGAAAGCCACAGTTTCTCCGCGAGAAATGAGCGCTACCCCTAACGGG
CAGTCCAAGACACTTAAGTGGGCCTCCCTGATTACCGAAGTTGAAACCTACAGCCAGGACGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

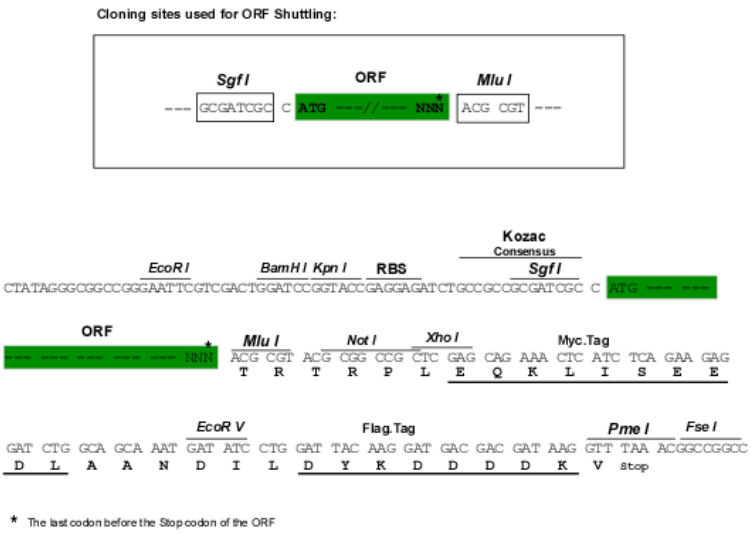
>MR221693 representing NM_007696
Red=Cloning site Green=Tags(s)

MGRLLLLAGLVLLMKHSDGTAYKLVCYFTNWAHSRPGPASIMPHDLDPFLCTHLIFAFASMSNNQIVAKN
LQDENVLYPEFNKLKERNRELKTLLSIGGWNFGTSRFTAMLSTLANREKFIDSVISFLRIHGFDGLDLFF
LYPGLRGSPPHDRWNFLFLIEELQFAFEREALLTQHPRLLLSAAVSGIPSIIHTSYDALLLGRRLDFINV
LSYDLHGSWEKFTGHNSPLFSLPEDSKSSAYAMNYWRKLGTPADKLIMGFPTYGRNFYLLKESKNGLQTA
SMGPASPGKYTKQAGFLAYYEVCSFVQRAKKHWIDYQYVPYAFKGKEWLGYDDTISFSYKAMYVKREHFG
GAMVWTLDMDDVRGTFCGNGPFPLVHILNELLVQTESNSTPLPQFWFTSSVNASGPGSENTALTEVLTTD
TIKILPPGGEAMTTEVHRRYENMTTVPSDGSVTPGGTASPRKHAVTPENNTMAAEAKTMSTLDFFSKTTT
GVSKTTTGISKTTTGVSKTTTGVSKATAGISKTIPEISKATAGVSKTTTGVSKTTTGISKTITGVSKTTT
GISKTTTGISKTTTGVSKITTGVSKTTTGISKTTTGISQTTTGISKTTTDISKTTTGISKTTPGISKTTP
GMTVIVQTQANEAETTATMDHQSVTPTEMDTTLFYLKTMTPSEKETSRKKTMVLEKATVSPREMSATPNG
QSKTLKWASLITEVETYSQDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007696

ORF Size: 2163 bp

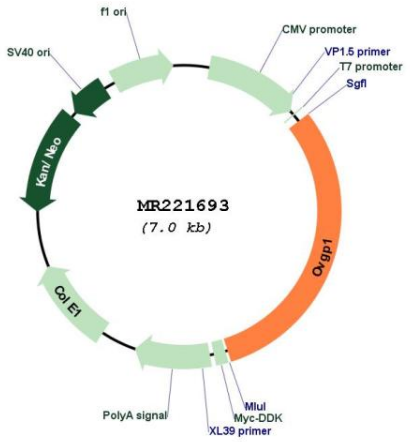
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_007696.1, NM_007696.2, NP_031722.1
RefSeq Size:	2525 bp
RefSeq ORF:	2166 bp
Locus ID:	12659
UniProt ID:	Q62010
Cytogenetics:	3 F2.2
MW:	78.8 kDa
Gene Summary:	Binds to oocyte zona pellucida in vivo. May play a role in the fertilization process and/or early embryonic development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221693