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Product datasheet for RC239403

IMPG1 (NM_001282368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IMPG1 (NM_001282368) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IMPG1
Synonyms:	GP147; IPM150; SPACR; VMD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC239403 representing NM_001282368
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTATTTGGAAACTAGAAGAGCTATTTTTGTTTTTTGGATTTTTCTCCAAGTTCAAGGAACCAAAGTGT
GTCAGGAAGCAGTATGGGAAGCATATCGGATCTTTCTGGATCGCATCCCTGACACAGGGGAATATCAGGA
CTGGGTCAGCATCTGCCAGCAGGAGACCTTCTGCCTCTTTGACATTGGAAAAAACTTCAGCAATTCCCAG
GAGCACCTGGATCTTCTCCAGCAGAGAATAAAACAGAGAAGTTTCCCTGACAGAAAAGATGAAATATCTG
CAGAGAAGACATTGGGAGAGCCTGGTGAAACCATTGTCATTTCAACAGATGTTGCCAACGTCTCACTTGG
GCCTTTCCCTCTCACTCCTGATGACACCCTCCTCAATGAAATTCTCGATAATACACTCAACGACACCAAG
ATGCCTACAACAGAAAGAGAAACAGAATTCGCTGTGTTGGAGGAGCAGAGGGTGGAGCTCAGCGTCTCTC
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TGCTACTTTGAGTCCAGAACTTCCTCCTGTTGAACCCCAGCTTGAGACAGTGGACGGAGCAGAGCATGGT
CTACCTGACACTTCTTGGTCTCCACCTGCTATGGCCTCTACCTCCCTGTCAGAAGCTCCACCTTTCTTTA
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AGTACCAGGGCTCACCATCCCCACCAGTGATTATTCTGCAATCAGCCAACTGGCTCTGGGAATTTCACAT
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ACAAGAGCTCTCTGGAGTACCGAGCTCTGGAGCAACAATTCACACAGCTGCTGGTTCCATATCTACGATC
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ATGAAGTTTGCTAAGTCAGTGCCGTATAACCTCACCAAGGCTGTGCACGGGGTCTTGGAGGATTTTCGTT
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AGATCCCTGCAAGTTCCTGGCCTGCGGCGAATTTGCCCAATGTGTAAAGAACGAACGGACTGAGGAAGCG
GAGTGTCGCTGCAAACCAGGATATGACAGCCAGGGGAGCCTGGACGGTCTGGAACCAGGCCTCTGTGGCC
CTGGCACAAAGGAATGCGAGGTCCTCCAGGGAAAGGGAGCTCCATGCAGGTTGCCAGATCACTCTGAAAA
TCAAGCATACAAAACTAGTGTTAAAAAGTTCCAAAATCAACAAAATAACAAGGTAATCAGTAAAAGAAAT
TCTGAATTACTGACCGTAGAATATGAAGAATTTAACCATCAAGATTGGGAAGGAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239403 representing NM_001282368
Red=Cloning site Green=Tags(s)

MYLETRRAIFVFWIFLQVQGTKVCQEAVWEAYRIFLDRIPDTGEYQDWVSICQQETFCLFDIGKNFSNSQ
EHLDLLQQRIKQRSFPDRKDEISAEKTLGEPGETIVISTDVANVSLGPFPLTPDDTLLNEILDNTLNDTK
MPTTERETEFAVLEEQRVELSVSLVNQKFKAELADSQSPYYQELAGKSQLQMQKIFKKLPGFKKIHVLGF
RPKKEKDGSSSTEMQLTAIFKRHSAEAKSPASDLLSFDSNKIESEEVYHGTMEEDKQPEIYLTATDLKRL
ISKALEEEQSLDVGTIQFTDEIAGSLPAFGPDTQSELPTSFAVITEDATLSPELPPVEPQLETVDGAEHG
LPDTSWSPPAMASTSLSEAPPFFMASSIFSLTDQGTTDTMATDQTMLVPGLTIPTSDYSAISQLALGISH
PPASSDDSRSSAGGEDMVRHLDEMDLSDTPAPSEVPELSEYVSVPDHFLEDTTPVSALQYITTSSMTIAP
KGRELVVFFSLRVANMAFSNDLFNKSSLEYRALEQQFTQLLVPYLRSNLTGFKQLEILNFRNGSVIVNSK
MKFAKSVPYNLTKAVHGVLEDFRSAAAQQLHLEIDSYSLNIEPADQADPCKFLACGEFAQCVKNERTEEA
ECRCKPGYDSQGSLDGLEPGLCGPGTKECEVLQGKGAPCRLPDHSENQAYKTSVKKFQNQQNNKVISKRN
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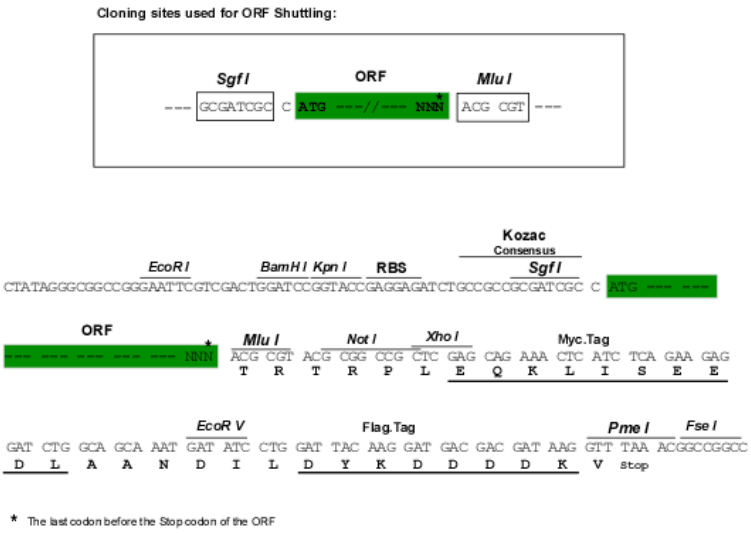
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282368

ORF Size: 2157 bp

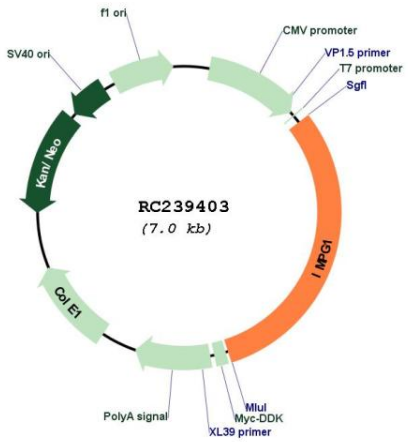
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001282368.1, NP_001269297.1
RefSeq Size:	3342 bp
RefSeq ORF:	2160 bp
Locus ID:	3617
UniProt ID:	Q17R60
Cytogenetics:	6q14.1
Protein Families:	Druggable Genome, Secreted Protein
MW:	80.6 kDa
Gene Summary:	This gene encodes a protein that is a major component of the retinal interphotoreceptor matrix. The encoded protein is a proteoglycan that is thought to play a role in maintaining viability of photoreceptor cells and in adhesion of the neural retina to the retinal pigment epithelium. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RC239403