

Product datasheet for **MR210410**

Impg1 (NM_022016) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Impg1
Synonyms:	A930015H12Rik; IMP150; SPACR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR210410 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTTGCAAAATTAACATGCTATCTTTGTTTGGGATTTTTCTCCAAGTTCAAGGAATCAAAGATA
CCTCTATTAATAATTCAGTTCTGAAATTAACATAGACAAAACCCCAAGAATCGAAACAATTGAAAG
TACTTCAACAGTGCACAAAGTGTCAACCATGAAACGAATATTCGATTTGCCAAAGCTTCGAACCAAAAGA
TCAGCACTTTTCCAGCTGCTAACATCTGTCCACAGGAATCCTTGAGACAGATTTTAGCAAGTCTTCAAG
AATATTATAGACTGAGAGTATGTCAAGAAGTCGTGGGAAGCATATCGTATCTTTCTGGACCGAATTCC
TGACACAGAGGAATATCAAGACTGGGTGAGCCTCTGCCAGAAAGAAACCTTCTGCCTCTTTGACATTGGG
AAAACTTCAGCAACTCCAGGAGCACCTAGATCTTCTTCAGCAGAGAATAAAACAGAGAAGCTTCCCTG
GGAGGAAAGATGAGACAGCCTCCATGGAGACACTGGAAGCACCTACTGAAGCCCCTGTGGTACCCACAGA
TGTTTTCCAGGATGTCCTGGGGCCCTTCCACTTCTTCTGATGACACAGACCTCAAGGAGATTCTCAGT
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CATCAGAGGAGAAGGTGGAATTCAGCATCTCTGCGCAAAACACAGGTTCAAGGCAGAGCTACCAAACTC
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GCCCCCTTGCTGATGTCACAGAGGATGCCACTTTGAGTCCAGAACTTCTTTCTGTGAGCCTAGGCTTGAG
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CAGCCTCAATTTCCCGATCAGAAAACTACCTTCGTTACACCTAGCATCTTCTCTAGATGCTCAAAG
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CAAGCAGCCATGACACAATCCGAGACCTAGATGGCATGGATGTGTCTGACACGCCAGCCTTGTGAGAAAT
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GCCCAGTGTGTAAGAATGAGTGGACAGAGGAAGCAGAGTGTGCTGACAGAGGGACATGAGAGCCACG
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AACTCCATGCAGGCCACCAGATCACTCTACAAACCAAGCTCAGGAACCTGGTGTAAAAAGCTACGTCAG
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ACTGGGAGGGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>MR210410 protein sequence
Red=Cloning site Green=Tags(s)

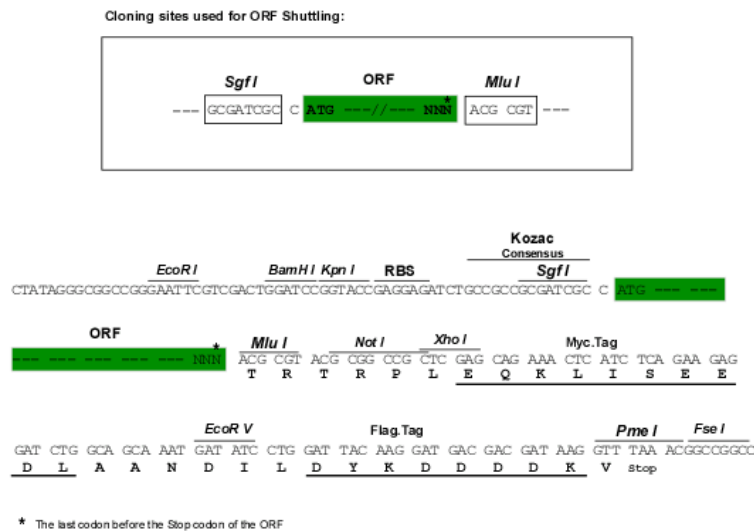
MNLQIKHAIFVLGIFLQVQGIKDTSIKIFSSSEIKNIDKTPRIETIESTSTVHKVSTMKRIFDLPLKLR
SALFPAANICPQESLRQILASLQEYRLRVCQEYVWEAYRIFLDRIPTDEEYQDWVSLCQKETFCFLDIG
KNFSNSQEHLDLLQRIKQSFGRKDETASMETLEAPTEAPVPTDVSRMSLGPFLPSDDTDLKEILS
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YLATDCLKKLIQLLDGDLVSLVEGKIPFGDEVGTGLFRPVTEPDLKPLADVTEATLSPELPFVEPRLE
AYDREGSELPGMSSKSSWSPVSAISRSENLPSTFSPISLDAQSPPLMTTGPTALIPKPTLPTIDY
STIRQLPLESSHWPASSSDRELITSSHDTIRDLGMDVSDTPALSEISELSGYDSASGQFLEMTPPTIV
RFITTSSETIATKGQELVVFSLRVANMPFSYDLFNKSSLEYQALEQRFDTLLVPYLRNLTGFKQLEIL
SFRNGSVIVNSKVRFAKAVPYNLQAVRGVLEDLRSTAAQGLNLEIESYSLDIEPADQADPCKLLDCGKF
AQCVKNEWTEEAECRCRQGHESHGTLDYQTLNLCPGKTCVAGREQATPCRPDSTNQAQEPGVKKLRQ
QNKVVKKRNSKLSAIGFEEDQDWEGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_022016

ORF Size:

2394 bp

OTI Disclaimer:

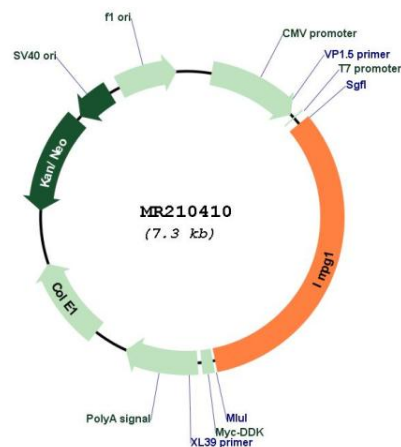
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_022016.3, NP_071299.3</u>
RefSeq Size:	3587 bp
RefSeq ORF:	2397 bp
Locus ID:	63859
UniProt ID:	<u>Q8RIW8</u>
Cytogenetics:	9 43.99 cM
MW:	89.5 kDa
Gene Summary:	May interact with hyaluronan which may serve to form a basic macromolecular scaffold comprising the insoluble interphotoreceptor matrix.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210410