

Product datasheet for **RR211501**

Impa2 (NM_172224) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Impa2 (NM_172224) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Impa2
Synonyms: MGC93085
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211501 representing NM_172224
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGCCGAACAGCGAGGAAGAGGAGGAGTTGGTGCAGGGCGTGGGCCCTGGGACGAGTGCTTCGAGG
TGGCCGTGCAGTTGGCGTTGCGTGCGGGACAAATCATCAGAAAGGCCCTCACTGAGGAAAAACACGTCTC
GACGAAAACATCTGCTGCAGATCTTGTGACAGAAACAGATCACCGAGTAGAAGACTTAATTGTTTCTGAG
TTGCGAAAAGCGGTTCCCTTCACACAGGTTCAATTGCAGAAGAGGCCACAGCCTCCGGGGCCAAGTGTGTGC
TACCCACAGCCCGACCTGGATCATCGACCCCATCGACGGCACCTGCAACTTTGTGCACAGATTCCCAC
TGTGGCAGTTAGCATCGGATTTGCTGTTACCAGGAGCTGGAATTTCGGAGTGATTCACCACTGCACAGAG
GAGCGGCTGTACACCGCAGGAGGGGCCAGGGCGCCTTTTGAATGGCCAGAGGCTCCAGGTCTCCAGGG
AGACAGATCTCGCAAAGGCCTTGGTTCTGACAGAAATCGGGCCAAACGTGACCCCGATACTCTGAAAGT
ATTCTGAGCAACATGGAGCGGCTGCTGCACGCCAAGGCTCATGGGGTCCGAGTGATTGGCAGCTCCACC
TTGGCGCTCTGCTACTTGGCCTCGGGGGCTGCTGATGCCTATTACCAGTTCGGCCTCCACTGCTGGGATC
TGGCAGTGCCACAGTCATCATCAGAGAAGCAGGTGGCATTGTGATTGACACCTCAGGTGGACCCCTTGA
CCTCATGTGTCGAGAGTGGTGGCTGCTGGCACAGAGAGATGGCAGTGCTCATAGCTCAGGCCCTACAA
ACCATTAACACGGCCGGGACGATGAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211501 representing NM_172224
Red=Cloning site Green=Tags(s)

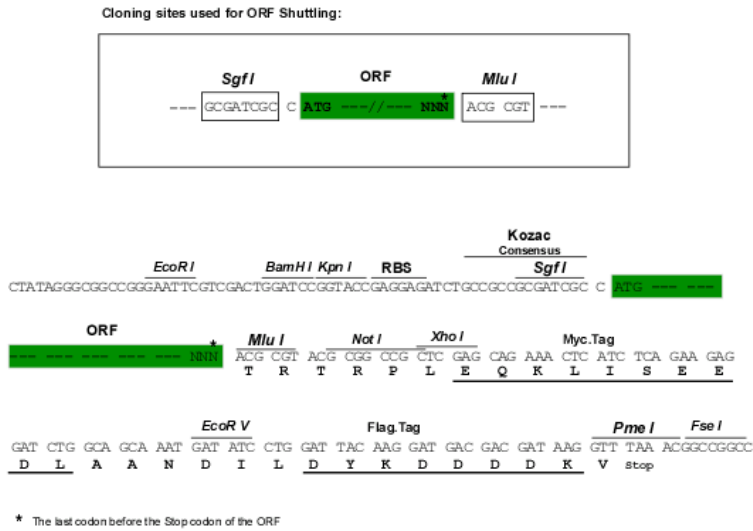
MKPNSEEEEEELVQGVGPWDECFEYAVQLALRAGQIIRKALTEEKHVSTKTSAADLVETDHRVEDLIVSE
 LRKRFP SHRFIAEEATASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVHQELEFGVIHHCTE
 ERLYTGRRGQGFACNGQRLQVSRETDLAKALVLTEIGPKRDPDTLKVFLSNMERLLHAKAHGVRVIGSST
 LALCYLASGAADAYYQFGLHCWDLAAATVIIREAGGIVIDTSSGPLDLMSCRVAAGTREMAVLIAQALQ
 TINYGRDDEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

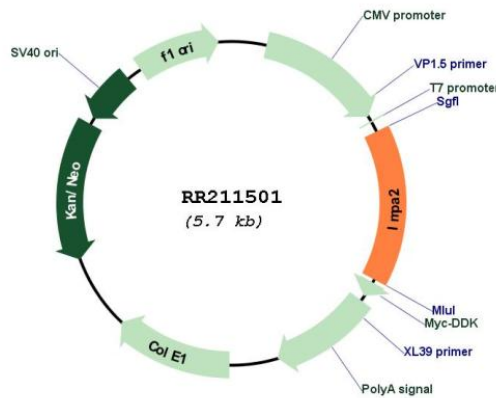
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172224

ORF Size: 870 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_172224.1 , NP_757378.1
RefSeq Size:	1341 bp
RefSeq ORF:	873 bp
Locus ID:	282636
UniProt ID:	Q8CIN7
Cytogenetics:	18q12.1
MW:	31.8 kDa
Gene Summary:	mouse homolog is an enzyme that catalyzes the synthesis of free myo-inositol from various myo-inositol monophosphates [RGD, Feb 2006]