

Product datasheet for **MR203957**

Impa2 (NM_053261) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Impa2 (NM_053261) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Impa2
Synonyms: 2210415D20Rik; AI326924; AW259601
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203957 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCCGAGCAGCGAGGAAGAGGGAGAGTTGGTGCAGGGCGTGGGCCCTGGGATGAGTGCTTCGAGG
TGGCCGTGCAGTTGGCGCTGCGTGCGGGACAAATCATCAGGAAGGCCCTGACAGAGGAAAAACGCGTCTC
TACAAAAACATCTGCTGCCGATCTTGTGACAGAAACAGATCACCGAGTAGAAGATTTAATTGTTTCTGAG
TTGCGAAAGCGGTTTCTTACACAGGTTTCATTGCAGAAGAGGCCACAGCCTCCGGGGCCAAGTGTGTGC
TCACCCACAGCCCGACCTGGATCATCGACCCCATCGACGGCACCTGCAACTTCGTGCACAGGTTCCCCAC
TGTGGCAGTTAGCATCGATTTGCTGTTACCAGGAGCTGGAATTTGGAGTGATTCACCACTGCACAGAG
GAGCGGCTGTACACCGGACAGGAGGGCCAAGGTGCCTTTTGAATGGCCAGCGGCTCCAGGTCTCCAGGG
AGACAGATCTCGCAAAGGCCCTTGGTTCTGACAGAAATCGGGCCCAAACGCGACCCCGATACCCCTGAAAGT
ATTCTGAGTAACATGGAGCGGCTGCTGCACGCCAAGGCTCATGGCGTCCGAGTGATTGGCAGCTCCACC
TTGGCCCTCTGTTACCTGGCCTCGGGTGCAGCCGACGCCTATTATCAGTTTGGCCTTCACTGCTGGGACC
TGGCAGCTGCCACAGTCATCATTAGAGAAGCAGCGGCATTGTGATTGACACCTCAGGTGGACCCCTGA
CCTCATGTCGTGCAGAGTCGTAGCTGCTGGCACCAAGAGAGATGGCAGTGCTCATAGCTCAGGCCCTACAA
ACTATTAACACGGCCGAGACGATGAGAAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR203957 protein sequence
 Red=Cloning site Green=Tags(s)

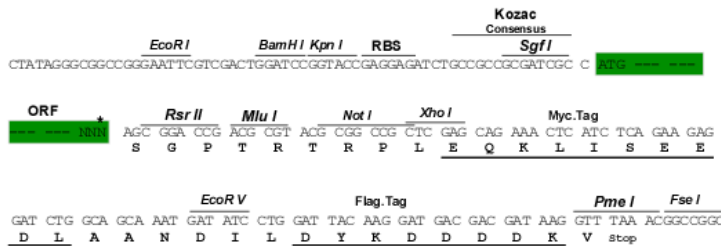
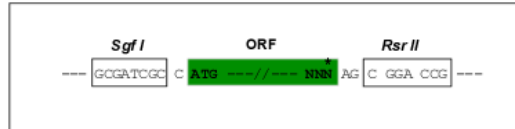
MKPSSEEEGELVQGVGPWDECFEVAVQLALRAGQIIRKALTEEKRVSTKTSAADLVTETDHRVEDLIVSE
 LRKRFPShRFIAEEATASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVHQELEFGVIHHCTE
 ERLYTGRRGQGAF CNGQRLQVSRETDLAKALVLTEIGPKRDPDTLKVFLSNMERLLHAKAHGVRVIGSST
 LALCYLASGAADAYYQFGLHCWDLAAATVIIREAGGIVIDTSGGPLDLMSCRVVAAGTREMAVLIQAALQ
 TINYGRDDEK

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053261

ORF Size: 873 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_053261.1](#), [NM_053261.2](#), [NP_444491.1](#)

RefSeq Size: 1386 bp

RefSeq ORF: 873 bp

Locus ID: 114663

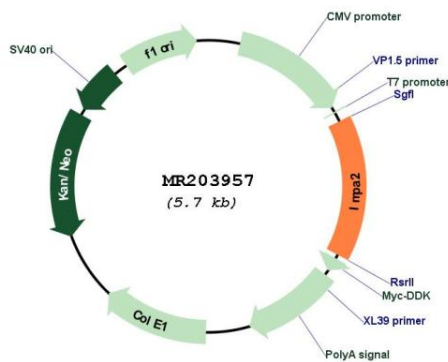
UniProt ID: [Q91UZ5](#)

Cytogenetics: 18 E1

MW: 31.7 kDa

Gene Summary: Can use myo-inositol monophosphates, scylloinositol 1,4-diphosphate, glucose-1-phosphate, beta-glycerophosphate, and 2'-AMP as substrates. Has been implicated as the pharmacological target for lithium Li(+) action in brain (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203957