

Product datasheet for **RC200063**

IMPA2 (NM_014214) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IMPA2 (NM_014214) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IMPA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200063 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCCGAGCGGCGAGGACCAGGCGGCGCTGGCGGCCGGCCCTGGGAGGAGTGCTTCCAGGCGGCCG
TGCAGCTGGCGCTGCGGGCAGGACAGATCATCAGAAAAGCCCTTACTGAGGAAAAACGTGTCTCAACAAA
AACATCAGCTGCAGATCTTGTGACAGAAACAGATCACCTTGTGGAAGATTAATTATTTCTGAGTTGCGA
GAGAGGTTTCCTCACACAGGTTTCATTGCAGAAGAGGCCGCGGCTTCTGGGGCCAAGTGTGTCTCACCC
ACAGCCCGACGTGGATCATCGACCCCATCGACGGCACCTGCAATTTTGTGCACAGATTCCCGACTGTGGC
GGTTAGCATTGGATTTGCTGTTGACAAGAGCTTGAATTCGGAGTGATTTACCACTGCACAGAGGAGCGG
CTGTACACGGGCCGCGGGTTCGGGGCGCCTTCTGCAATGGCCAGCGGCTCCGGGTCTCCGGGGAGACAG
ATCTCTCAAAGCCTTGGTTCTGACAGAAATTGGCCCCAAACGTGACCCTGCGACCCTGAAGCTGTTCT
GAGTAACATGGAGCGGCTGCTGCATGCCAAGGCGCATGGGGTCCGAGTGATTGGAAGCTCCACATTGGCA
CTCTGCCACCTGGCCTCAGGGGCCGCGGATGCCTATTACCAGTTTGGCCTGCACTGCTGGGATCTGGCGG
CTGCCACAGTCATCATCAGAGAAGCAGGCGGCATCGTGATAGACACTTCGGGTGGACCCCTCGACCTCAT
GGCTTGCAGAGTGGTTGCGGCCAGCACCCGGGAGATGGCGATGCTCATAGCTCAGGCCTTACAGACGATT
AACTATGGGCGGGATGATGAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200063 protein sequence
Red=Cloning site Green=Tags(s)

MKPSGEDQAALAAGPWEECFQAAVQLALRAGQIIRKALTEEKRVSTKTSAADLVETDHLVEDLIISELR
 ERFPSHRFIAEEAASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVRQELEFGVIYHCTEER
 LYTGRRGRGAFcNGQRLRVSGETDLSKALVLTETIGPKRDPATLKLFLSNMERLLHAKAHGVRVIGSSTLA
 LCHLASGAADAYYQFGLHCWDLAAATVVIIEAGGIVIDTSGGPLDLMACRVVAASTREMAMLIAQALQTI
 NYGRDDEK

TRTRPLEQKLISEEDLANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6577_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_014214

ORF Size: 864 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_014214.3](#)

RefSeq Size: 1537 bp

RefSeq ORF: 867 bp

Locus ID: 3613

UniProt ID: [O14732](#)

Cytogenetics: 18p11.21

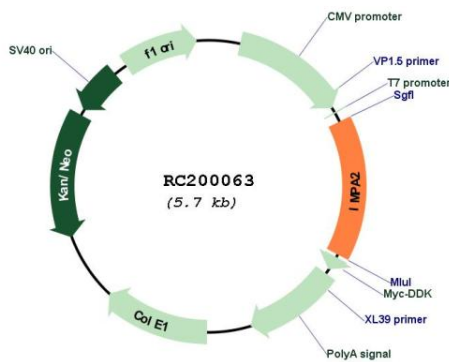
Domains: inositol_P

Protein Pathways: Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

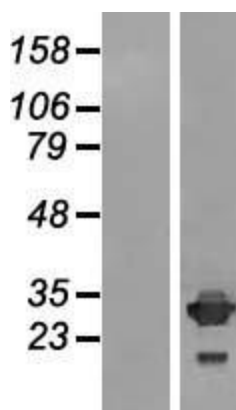
MW: 31.3 kDa

Gene Summary: This locus encodes an inositol monophosphatase. The encoded protein catalyzes the dephosphoylation of inositol monophosphate and plays an important role in phosphatidylinositol signaling. This locus may be associated with susceptibility to bipolar disorder. [provided by RefSeq, Jan 2011]

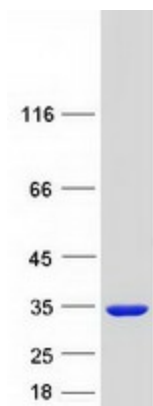
Product images:



Circular map for RC200063



Western blot validation of overexpression lysate (Cat# [LY415429]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200063 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IMPA2 protein (Cat# [TP300063]). The protein was produced from HEK293T cells transfected with IMPA2 cDNA clone (Cat# RC200063) using MegaTran 2.0 (Cat# [TT210002]).