

## Product datasheet for **RG200063**

### IMPA2 (NM\_014214) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IMPA2 (NM_014214) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IMPA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200063 representing NM_014214 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCCGAGCGGGCAGGACCAGGCGCGCTGGCGGCCGCCCTGGGAGGAGTGCTTCCAGGCGGCCG  
TGCAGCTGGCGCTGCGGGCAGGACAGATCATCAGAAAAGCCCTTACTGAGGAAAAACGTGTCTCAACAAA  
AACATCAGCTGCAGATCTTGTGACAGAAACAGATCACCTTGTGGAAGATTAATTATTTCTGAGTTGCGA  
GAGAGGTTTCCTCACACAGGTTTCATTGCAGAAGAGGCCGCGGCTTCTGGGGCCAAGTGTGTCTCACCC  
ACAGCCCAGCTGGATCATCGACCCATCGACGGCACCTGCAATTTTGTGCACAGATTCCCGACTGTGGC  
GGTTAGCATTGGATTTGCTGTTGACAAGAGCTTGAATTCGGAGTGATTTACCACTGCACAGAGGAGCGG  
CTGTACACGGGCCGCGGGTTCGGGGCGCCTTCTGCAATGGCCAGCGGCTCCGGGTCTCCGGGGAGACAG  
ATCTCTCAAAGGCCTTGGTTCTGACAGAAATTGGCCCCAAACGTGACCCTGCGACCCTGAAGCTGTTCT  
GAGTAACATGGAGCGGCTGCTGCATGCCAAGGCGCATGGGGTCCGAGTGATTGGAAGCTCCACATTGGCA  
CTCTGCCACCTGGCCTCAGGGGCCGCGGATGCCTATTACCAAGTTTGGCCTGCACTGCTGGGATCTGGCGG  
CTGCCACAGTCATCATCAGAGAAGCAGGCGGCATCGTGATAGACACTTCGGGTGGACCCCTCGACCTCAT  
GGCTTGCAGAGTGGTTGCGGCCAGCACCCGGGAGATGGCGATGCTCATAGCTCAGGCCTTACAGACGATT  
AACTATGGCGGGATGATGAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200063 representing NM\_014214  
Red=Cloning site Green=Tags(s)

MKPSGEDQAALAAGPWEECFQAAVQLALRAGQIIRKALTEEKRVSTKTSAADLVETDHLVEDLIISELR  
 ERFPSHRFIAEEAAASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVRQELEFGVIYHCTEER  
 LYTGRRRGAFACNGQRLRVSGETDLSKALVLEIGPKRDPATLKLFLSNMERLLHAKAHGVRVIGSSTLA  
 LCHLASGAADAYYQFGLHCWDLAAATVIREAGGIVIDTSGGPLDLMACRVVAASTREMAMLIAQALQTI  
 NYGRDDEK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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:** 1500 bp

**RefSeq ORF:** 867 bp

**Locus ID:** 3613

**UniProt ID:** [O14732](#)

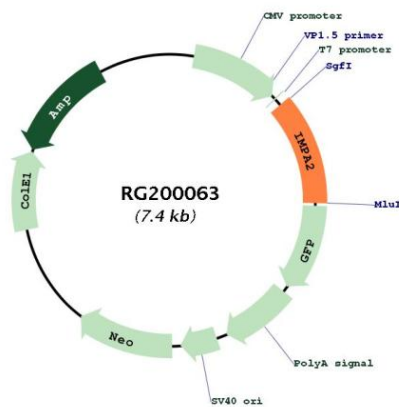
**Cytogenetics:** 18p11.21

**Domains:** inositol\_P

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

**Gene Summary:** This locus encodes an inositol monophosphatase. The encoded protein catalyzes the dephosphorylation 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 RG200063