

Product datasheet for **RG210604**

INPP1 (NM_002194) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INPP1 (NM_002194) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210604 representing NM_002194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGATATCCTCCGGGAGCTGCTCTGTGTCTCTGAGAAGGCTGCTAACATTGCCCGGGCGTGCAGAC
AGCAGGAAGCCCTCTCCAGCTGCTGATCGAAGAAAAGAAAGAGGGAGAAAAGAACAAGAAGTTGCAGT
TGACTTCAAGACTCTGGCTGATGTAAGTACAGGAAGTTATAAACAGAATATGGAGAACAAGTTTCCA
GGCTTGGAAAAAATATTTTTGGAGAAGAATCCAATGAGTTTACTAATGACTGGGGGAAAAGATTACCT
TGAGGTTGTGTTCAACAGAGGAAGAAACAGCAGAGCTTCTTAGCAAAGTCTCAATGGTAACAAGGTAGC
ATCTGAAGCATTAGCCAGGGTTGTTTCATCAGGATGTTGCCTTTACTGACCAACTCTGGATTCCACAGAG
ATCAATGTTCCACAGGACATTTTGGGAATTTGGGTGGACCCCATAGATTCAACTTATCAGTATATAAAAG
GTTCTGCTGACATTAATCCAACCAGGGAATCTTCCCCTGTGGACTTCAGTGTGTCACCATTTTAATTGG
TGTCTATGACATACAGACAGGGTTCCCCTGATGGGAGTCATCAATCAACCTTTTGTGTCACGAGATCCA
AACCCCTCAGGTGAAAGGACAGTGTCTATTGGGGCCTTCTTACATGGGGACCAACATGCATTCACTAC
AGCTCACCATCTCTAGAAGAAACGGCAGTGAACACACACTGGAAACACCGGCTCTGAGGCAGCATTCTC
CCCCAGTTTTTCAGCCGTAATTAGTACAAGTAAAAGGAGACTATCAAAGCTGCATTGTCACGTGTGTGT
GGAGATCGCATATTTGGGGCAGCTGGGGCTGGTTATAAGAGCCTATGTGTTGTCCAAGGCCTCGTTGACA
TTTACATCTTTTCAAGATACACATTCAAATGGGACTCTTGTGCTGCTCATGCCATACTGCGGGCCAT
GGGTGGGGGAATAGTAGACTTGAAGAATGCTTAGAAAAGAAATCCAGAAAACAGGGCTTGATTTGCCACAG
TTGGTGTACCACGTGGAAGATGAGGGTGTGCTGGGGTGGATCGGTGGCCAACAAGGGAGGACTCATTG
CATACAGATCCAGGAAGCGGCTGGAGACATTCCTGAGCCTCCTGGTCCAAAACCTGGCACCTGCAGAGAC
GCATACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210604 representing NM_002194
Red=Cloning site Green=Tags(s)

MSDILRELLCVSEKAANIARACRQQEALFQLLIEEKKEGEKNKKFAVDFKTLADVLVQEVIKQNMENKFP
 GLEKNIFGEESNEFTNDWGEKITLRLCSTEEETAELLSKVLNGNKVASEALARVVHQDVAFTDPTLDSTE
 INVPQDILGIWVDPIDSTYQYIKGSADIKSNQGIFFCGLQCVTILIGVYDIQTGVPLMGVINQPFVSRDP
 NTLRWKGGQCYWGLSYMGTNMHSLQLTISRNRGSEHTHTGNTGSEAAFSPSFSAVISTSEKETIKAALSRVC
 GDRIFGAAGAGYKSLCVVQGLVDIYIFSEDITFKWDSAAHAILRAMGGGIVDLKECLERNPETGLDLPQ
 LVYHVENEGAAGVDRWANKGGLIAYRSRKRLETFLSLLVQNLAPAETHT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002194

ORF Size: 1197 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_002194.2](#), [NP_002185.1](#)

RefSeq Size: 1682 bp

RefSeq ORF: 1200 bp

Locus ID: 3628

UniProt ID: [P49441](#)

Cytogenetics: 2q32.2

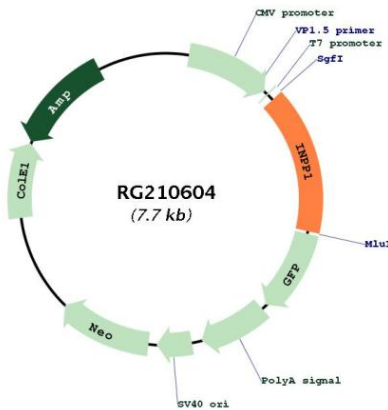
Domains: inositol_P

Protein Families: Druggable Genome

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

Gene Summary: This gene encodes the enzyme inositol polyphosphate-1-phosphatase, one of the enzymes involved in phosphatidylinositol signaling pathways. This enzyme removes the phosphate group at position 1 of the inositol ring from the polyphosphates inositol 1,4-bisphosphate and inositol 1,3,4-trisphosphate. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210604