

Product datasheet for **RC223630**

INPP5B (NM_005540) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INPP5B (NM_005540) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	INPP5B
Synonyms:	5PTase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223630 representing NM_005540
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCAGTCTGTGGCAATCCAGGAGACGCTGGCTGAGGGGAATACTGCGTCATCGCGGTGCAAGGTG
 TGCTGTGTGAGGGGACAGCCGGCAGAGCCGCTCCTGGGACTCGTGCGCTACCGCTGGAGCACGGCGG
 CCAGGAACACGCTCTCTTCTCTATACGCACCGGAGGATGGCCATTACCGGGGACGATGTCTCTGGAC
 CAGATAGTGCCAGTCTCGCGGGATTTACGCTGGAAGAAGTGTCCCAGATGGTGAAGTCTACATCCTTG
 GCTCAGATGTGACCGTCCAGCTGGACACAGCAGAGCTTAGCCTCGTATTCCAAGTCCCTTTGGTTACA
 AACAGGATGTTCTCCACGAAGTTGCCAGGGCTGTCCAGGCTTCGATTCTGCGACCCGGGATCCTGAA
 TTCTGTGGCTGTCTCGGTATAGGTGCGCAGAGCTGGAGCTGGAGATGCCAACGCCGCGCGGTTGAACT
 CGGCCCTAGTTACCTGGCCAGGTTACGCGACAATTGGCGGAGGTGTTCTAACTTTGATGGTTTGAGACC
 AAATGGGAAGGGAGTGCCTATGGACCAAAGCTCCAGGGTCAAGATAAACAGAAAGCTTGAACCAAGA
 CAGAATAAATCCAAGTCCGAAATTAAGTACATGGTTTCGCTCCTCACTATCACAGTGTGGACAAGGCTC
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 CGAATGCAGTTTTGTGAGCTGACCCAAAGCCTTCCCCCTCTACCATCAGCAACCATGATGTGATCTTGT
 GGCTGGGGACCTCAACTACAGGATAGAAGAGCTGGATGTGAAAAAGTAAAAAGCTCATCGAAGAGAA
 GGACTTTCAAATGCTGTATGCATATGATCAGCTGAAAAATCAGGTGGCCGCAAAGACTGTCTTTGAAGGC
 TTCACAGAGGGTGTGCTCACATTCAGCCTACTTACAAGTATGATACGGGCTCTGACGACTGGGATACCA
 GTGAGAAGTGCCGTGCTCCTGCCTGGTGTGATCGGATTCTCTGAAAGGGAAGAATCACTCAGCTGAG
 TTACCAGAGCCACATGGCCCTGAAGACCAGTGACCACAAGCCTGTGAGCTCAGTGTGACATCGGGGTG
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 AGCTGGTACCAAAAGCTTGATATGACAGAGAAGAAGAAGGCTCAAGAATTTATCCAGTTCCTCTGC
 AACCACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RC223630 representing NM_005540
Red=Cloning site Green=Tags(s)

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MDQSVAIQETLAEGEYCVIAVQGVLCGDSRQSRLLGLVRYRLEHGGQEHALFLYTHRRMAITGDDVSLD
QIVPVSDFDFTLEEVSPDGELYILGSDVTVQLDTAELSLVFQLPFGSQTRMFLHEVARACPGFDSATRDPE
FLWL SRYRCAELELEMPTRGCNSALVTWPGYATIGGGSNFDGLRPNKGVPMDQSSRGQDKPESLQPR
QNKSKSEITDMVRSSTITVSDKAHILSMQKFLGRDITIVKSHLLQKEEDYTYIQNFRFFAGTYNVNGQSPK
ECLRLWLSNGIQAPDVYCVGFQELDL SKEAFFHDTPKKEEWFKA VSEGLHPDAKYAKVKLIRLVGIMLL
LYYKQEHAAYISEVEAETVGTGIMGRMGNGKGVAIRFQFHNTSICVNSHLAAHIEEYERNQDYKDICS
RMQFCQPDPSLPLTISNHDVILWLGDLNRYIEELDVEKVKKLIIEEKDFQMLYAYDQLKIQA AKTVFEG
FTEGELTFQPTYKYDTGSDDWDTSEKCRAPAWCDRILWKGKNITQLSYQSHMALKTSDHKPVSSVFDIGV
RVVND ELYRKTLEEIVRSLDKMENANIPSVLSKREFCFQNVKYMQLKVESFTIHNQVPCHEFFINKPD
EESYCKQWLNANPSRGFLLPDSDEIDLEL FVNKMTATKLSNGEDKIEDILVLHLDRGKDYFLSVSGNYL
PSCFGSP IHTLCYMPREILDPLETISEL TLMPVWTGDDGSQLDSPMEIPKELWMMVDYL YRNAVQQEDL
FQQPGLRSEFEHIRDCLDTGMIDNLSASNHSVAEALLLFLES LPEPVICYSTYHNCL ECSGNYTASQVI
STLPIFHKNVFHYLMAFLRELLKNSAKNHLDENILASIFG SLLL RNPAGHQKLD MTEKKAQEF IHQFLC
NPL
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8119_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



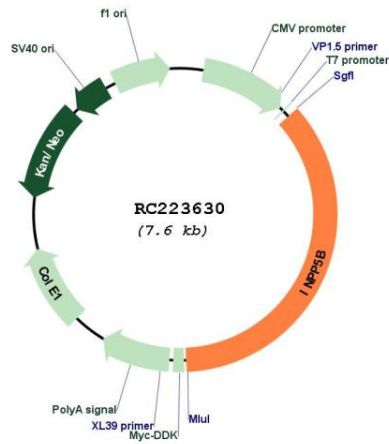
* The last codon before the Stop codon of the ORF

ACCN: NM_005540

ORF Size: 2739 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_005540.3
RefSeq Size:	4469 bp
RefSeq ORF:	2742 bp
Locus ID:	3633
UniProt ID:	P32019
Cytogenetics:	1p34.3
Protein Families:	Druggable Genome
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	104.4 kDa
Gene Summary:	This gene encodes a member of a family of inositol polyphosphate-5-phosphatases. These enzymes function in the regulation of calcium signaling by inactivating inositol phosphates. The encoded protein is localized to the cytosol and mitochondria, and associates with membranes through an isoprenyl modification near the C-terminus. Alternatively spliced transcript variants of this gene have been described. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RC223630