

Product datasheet for **RR213030**

Ipmk (NM_134417) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ipmk (NM_134417) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ipmk
Synonyms:	Impk; Ipk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR213030 representing NM_134417 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCCGAGCCCCAGCGCTGCGCCTGCGGCCGCTGGAAGCACCGGAGACAGCCCGCGGTGCCGC
GCCTGCTCGGAGGCTGCGTGCCGCTGTCGCATCAGGTGGCTGGCCACATGTACGGCAAGGACAAAGTGGG
CATACTCCAGCACCCAGATGGTACAGTTCTGAAACAGTCGAGCCACCGCCTCGGGGCCAAGAGAGCTG
GAATTTTATACCATGGTTTACGCTGCTGACTGTGCCGATGCTGTTCTCCTGGAGCTGCGGAAACACCTGC
CCAAGTACTATGGCGTCTGGTCCCCTCCAGCGCACCCAACGATGTGTACCTAAAAGTGAAGATGTGAC
TCATAAGTTTAAACAAGCCCTGTATAATGGACGTGAAGATTGGGCGGAAGAGCTACGACCCCTTTGCCTCG
GCAGAGAAGATTCAGCAGCAGGTGAGCAAGTACCTCTGATGGAGGAGATCGGGTTCCTGGTCTCGGCA
TGAGGGTTTATCATCTTCACTCTGACAGCTACGAGACACAAAACAGCACTATGGAAGAGGCTGACGAA
AGAGACTCTGAAGGAGGGTGTCTCCAAGTTTTCCACAACGGCTTCTGTTAAGGAAAGACGCGGTGGCA
GCCAGTATTCAGAAGGTCGAGAAGATTCAGTGGTTTGAAGTTCAGAAAGCAGCTTAACTTTTATGCAA
GCTCTTACTGTTTGTATGAAGGTTTCATCTCAGCCAGTACCACAAAATCAAACGATAGAAGTTTGGC
GGGAGGTTTCTCTCAAAGGAGCCCTGTCGGACGCGGATGTACTAGAGTGCAATAACAAGTTCCACCTG
TTCAGTCCCCGGCCAACGGCACGTCAGTGGGAAAAGTTATCTAAGGCGTACTCGAGGCACAGAAGC
TGTATGCAAAAAAGCACAGAGTCAGACTTCCCTCAAAGTTGAACTCTAGAGCAAGACAACGGGTGGAA
AAGCATGTCCAGGAACCTTAAACGGAACGTGCTTTCCCAACTGGAAGGTTTCTACACCTTCCG
GCGGGCCGCGAGGATCGCGGAAGCGGAAGTGCAGGATGATAGACTTTGCTCACGTGTTCCCTAGCAACA
CAGTAGATGAGGGTATGTTTACGGTCTGAAGCATCTAATTGCCGTGCTTCGGAGTATCTTGACAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213030 representing NM_134417
Red=Cloning site Green=Tags(s)

MAAEPPALRLRPPGSTGDSPPVPRLLGGCVPLSHQVAGHMYGKDKVGILQHPDGTVLKQLQPPRGPREL
 EFYTMVYAADCADAVLLELRKHLPKYYGVWSPSPAPNDVYLKLEDVTHKFNKPCIMDVKIGRKSYPFAS
 AEKIQQVSKYPLMEEIGFLVLGMRVYHLHSDSYETQNOHYGRGLTKETLKEGVSKFFHNGFCLRKDAVA
 ASIQQVEKILQWFENQQLNFYASSLLFVYEGSSQPATTKSNDRTLGRFLSKGALSDADVLECNMFHL
 FSSPANGTSVGKSLSKAYSRHRKLYAKKHQSQTSLKVVETLEQDNGWKSMSQEHNGNVLSQLKVFYHLP
 AGRQEIAEAEVRMIDFAHVFPSTVDEGYVYGLKHLIAVLRISILDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_134417

ORF Size: 1188 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_134417.1](#), [NP_599244.1](#)

RefSeq Size: 5432 bp

RefSeq ORF: 1191 bp

Locus ID: 171458

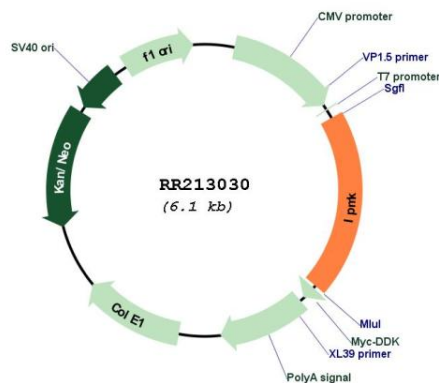
UniProt ID: [Q99NI4](#)

Cytogenetics: 20p11

MW: 44.4 kDa

Gene Summary: involved in the synthesis of inositol 1,4,5-trisphosphate and an inositol pyrophosphate [RGD, Feb 2006]

Product images:



Circular map for RR213030