

Product datasheet for **MC206150**

Ipmk (BC052463) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Ipmk (BC052463) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Ipmk |
| Synonyms: | 2410017C19Rik; AA408208; Impk |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >BC052463 |

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>BC052463
GGGGCCGCGGCCCTTATCCCGGGCGCGGGCGGGGTTTCAGAGTGCGGGCCGCGGAGCGGGCAGCG
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 CCCC GCCCTGTTACTTGTGATGAATGAATGTATCCCTGTACTTTGGTGGAAATGTCTTACTCTTTT
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 AATCATCTAATGTGATATACCAATTTTTATAAGCGATATTTAGATAACTCTAATAACTGTACATTCAACA
 ACTTATTAATGTTTTGCATTGGAAAAA AAAAAAAAAAAAAA

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| Restriction Sites: | Ascl-NotI |
| ACCN: | BC052463 |
| Insert Size: | 1191 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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: | BC052463 , AAH52463 |
| RefSeq Size: | 5432 bp |
| RefSeq ORF: | 1191 bp |
| Locus ID: | 69718 |
| Cytogenetics: | 10 B5.3 |
| Gene Summary: | Inositol phosphate kinase with a broad substrate specificity. Phosphorylates inositol 1,4,5-trisphosphate (Ins(1,4,5)P3) first to inositol 1,3,4,5-tetrakisphosphate and then to inositol 1,3,4,5,6-pentakisphosphate (Ins(1,3,4,5,6)P5) (PubMed:15939867). Phosphorylates inositol 1,3,4,6-tetrakisphosphate (Ins(1,3,4,6)P4). Phosphorylates glycerol-3-phospho-1D-myo-inositol 4,5-bisphosphate to glycerol-3-phospho-1D-myo-inositol 3,4,5-trisphosphate. Plays an important role in MLKL-mediated necroptosis via its role in the biosynthesis of inositol pentakisphosphate (InsP5) and inositol hexakisphosphate (InsP6). Binding of these highly phosphorylated inositol phosphates to MLKL mediates the release of an N-terminal auto-inhibitory region, leading to activation of the kinase. Essential for activated phospho-MLKL to oligomerize and localize to the cell membrane during necroptosis (By similarity). Required for normal embryonic development, probably via its role in the biosynthesis of inositol 1,3,4,5,6-pentakisphosphate (Ins(1,3,4,5,6)P5) and inositol hexakisphosphate (InsP6) (PubMed:15939867).[UniProtKB/Swiss-Prot Function] |