

Product datasheet for MC224460

Ppip5k1 (NM_178795) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppip5k1 (NM_178795) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ppip5k1
Synonyms:	B430315C20Rik; Hisppd2a; mKIAA0377
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224460 representing NM_178795 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGTCCTTGACGGCCAATGAGGACGAGAGCACTACGGCCACTTCTTCCTTGGAGCTGGAGATGAGG
GGTTGGGCACCTGTGGAATAGGCATGAGGACAGAAGAGAGTGACAGTGAACCTCTTGAGGACGAGGAGGA
TGAGGTGCCCCAGAACCTCAAATTATTGTTGGCATCTGTCCATGACCAAGAAATCCAAGTCCAAGCCA
ATGACCCAAATCTAGAGCGACTCTGCAGATTTGACTACCTGACCGTTGCATCCTGGGAGAAGATGTGA
TCCTAAATGAACCTGTGGAGAAGTGGCCGTCCTGCCACTGCCTCATCTCTTTCCACTCCAAGGCTTTCC
TCTCGACAAAGCTGTGGCTTACTCCAAGCTTCGAAACCCCTTCCTTATCAATGACTTGGCCATGCAGTAT
TACATCCAAGATAGGAGGGAGGTGTACCGATCCTACAGGAGGAAGGTATTGATCTGCCAAGATATGCTG
TCCTCAACCGTGACCCCGCTGTCTGAGGAGTGACGCTGATAGAAGGTGAAGACCAGGTGGAGGTTAA
TGGAGCTGTTTTCCCAAGCCCTTTGTGGAGAAGCCAGTGAGTGCAGAGGACCACAATGTTTACATCTAC
TACCCAGCTCTGCTGGAGGAGGAAGCCAGCGCTCTCCGTAAGATCGGCAGCCGGAGCAGCGTGTACT
CTCCTGAGAGCAGTGTGCGGAAGACAGGATCATACTATGAGGAGTTCATGCCGACAGATGGCACAGA
TGTTAAGGTGTACACAGTGGGGCCAGATTATGCCATGCTGAAGCTAGAAAGTCTCCAGCTTTGGATGGG
AAGGTTGAACGAGACAGTGAGGGGAAAGAGGTTGATATCCAGTATGTTGACCGCATGGAAAAGCTGG
TGGCCAGGAAGGTCTGCGTAGCTTTTAAGCAAACAGTTTGTGGATTTGACCTTCTCGGGCCAATGGTCA
CTCTTTGTGTGTGACGTC AATGGCTTTAGCTTTGTCAAGAACTCGATGAAGTACTATGATGACTGTGCC
AAGATTCTGGGAACACTATTATGCGAGAGCTTCCCCGAGTTCAGATACCGTGGTCCATCCCCACAG
AAGCTGAGGACATTCCCATTGTCCCTACCACATCTGGCACTATGATGGAACCTCCGTTGTGTGCATCGCAT
CATCCGTCATGGAGATAGAACCCCAAAGCAGAAGATGAAGATGGAGGTGACGCACCCGAGGTTTTTGTCT
CTATTTGAAAAACATGGTGGATATAAGACGGGAAAATTAAGCTTAAAGCGCCGGAGCAGCTCCAGGAGG
TGCTGGACATTACGAGGCTGCTGTTGGCAGAGCTGGAGAAGGAGCCAGAAGCCGAGATTGAGGAGAAGAC
TGGGAAGCTCGAGCAGCTGAAGTCCGTGCTGGAGATGTATGGTCACTTCTCAGGTATTAATCGGAAGGTG



[View online »](#)

CAGTTGACCTACTACCCACCGGAGTGAAAGCGTCGAACGAGGGGCAAGATCTGCAGAGAGGCCACTAG
 CACCCTCTCTTGTGGTGTGAAGTGGGGTGGAGAGCTGACACCCGATGGCCGTGTTACGGCTGAAGA
 GCTGGGGCGAGCTTCCGCTGCATGTATCCCGGAGGCCAGGGTACTATGCCGGCTTCCCGGCTGTGGG
 CTGCTTCGCTCCATAGCACTTCCGTCATGACCTCAAGATCTACGCCTGTATGAGGGCCGCTCCAGA
 TGACTGCTGTGCCTTTGCAAAGGGCCTTAGCTCTAGAAGGGGAGCTTACACCCATTTGGTACAAAT
 GGTGAAGAGTGCCAACATGAATGGCCTTCTGGACAGTGACAGCGACTCCCTAAGCAGCTGCCAGCACCGT
 GTGAAGCGCGACTGCACCACATTTTGCAGCAGGATGCACCCTTTGGCCCTGAGGACTATGACCAGCTGG
 CTCCAAGTGAAGCACGCTCTGCTCAACTCCATGTCTGTAATCCAGAATCCCGTAAAAGTCTGTGATCA
 GGTATTTGCCCTGATTGAAAACCTTACCACCAGATTGCGGAACGGATGCAAGACCCAGCTCTGTAGAC
 CTGCAGCTCTACCACAGTGAGACACTAGAGCTAATGCTACAGCGTTGGAGCAAAGTAGAGCGTGACTTTC
 GACAAAAGAGCGGGCGCTATGATATCAGTAAGATCCCTGATATCTATGACTGTGTCAAGTATGATGTGCA
 ACACAACGGGAGTCTGGGACTTCAAGGCACAGCCGAGTTACTCCGCTTTTCAAAGCTCTGGCTGACGTG
 GTCATTCCCAGGAGTATGGGATCAGTAGAGAGGAAAAGTGGAGATTGCTGTGGGCTTCTGCCTCCAC
 TGCTGCGGAAAACTACTTGCCTGCAGAGAACTCACGAGGATGAGTCTGTCAACAAGCTGCATCCCT
 GTACTCACGTGGAGTGTCTCCAGGCCGCCATGTTGCAACTCGGCTCTATTTACCAGTGAGAGTCAT
 GTTCACTCCTTACTCAGTGTCTTCCGTTATGGGGGACTTCTCGATGAGACCCAGGATGCCAGTGGCAGC
 GAGCCTTGGCTTATCTCAGTGCCATCTCAGAGCTGAACTACATGACCCAGATTGTTATCATGCTTTATGA
 GGACAACACGAGGGACCCCTTGTGAGAGGAGCGGTTCCATGTGGAGCTACATTTACGCCCTGGAGTGAAA
 GGAGTTGAGGAAGGCAGTGCCCCAGCCGCTGTGGATTCCGTCACGCCTCATCTGAGAATGAAGAGATGA
 AAACAGATCCAGGCAGCATTGAGAACCTGTGCCAGGGAAGGCATCCGATGAACCCAGACCCAGCAGTGA
 GACCTCACCCAACTGTTGAGGGCACTGGCCTCCCGAGGAGATCACCCCTATTGTAATCGAAAAGCT
 GGTTCCATGGAGGTGCTGTCTGAACTTCACTTCAAGACCTGGTGGCTACCGTCTGTTTTCATCTTAC
 GGCCACCAACAGAGATGAAGCAGAGTGGCTCACAGTGTACAGGGCTGTTACAGCACCACAGTGTCT
 GGGTGGCTCCTCCAGTGCTCCGAATCTTACAGACTACGCCCGCACCCATGGCAAAAAGCTCCCGCTGCC
 AGTCTAAAGCACCGAGATGAGCTTGTGTTGTCCCGCCGTAACGATTTTCTGTGTGCTTTGCAAAGC
 ATCCGACTAACGGATTTGAAGGGTGTCCATGGTACCTACCATCTACCCCTGGAGACACTGCACAAATGC
 CCTTCTTGGCCAAAGTGAAGTGAATTTGACTAAAGTCTGCCAGCGCCACACTGATGCCACGCACAG
 GCATCTGCAGCCCTTTGACTCTATGCACAACCATCAGGCCCTCAGATAGCCGTTCTCCCAACCCGCA
 CTCTTCATTGCCACCCCTGCAACTTCGGCATCGCTCTGAAAAGCCACCTGGTACAGCAGCGGGCCTTC
 CAGTACTGTGTCAGTGTGGCCCTTCTCTCCTACTACAGTAGATGAAAACCTCACACTTTGGCTTCAGT
 GATCAGTCTCTGTAATATACATATGACTGAAGAAAAGCAAGGCTTTGGTTGCTCCAGGAGACTCCTG
 GAGATGGAACACGAGAGCTCCATATAGAAAAGACAGCAAGAGCTTGTGAGCCAGCTCAGTCCCCTAAGA
 GCTACCTGTGAAATCTGCCCTCAGGAAGTCAGGGTGTACCAAGGTCAGCCAGACATGCCAGGAGGTC
 CCGGACATCGTCCAGCCGTGTCACAACATCCATGAGGAGATTGGCCAGCCCTCAGCAGGAGGTCCTGACA
 TCAGCCAGCTGTTGCTGAAGGACCATGACACTACTACCAACACGTGCCACCTGTGCCAGGCCAGCCAGCT
 GTCTCAGAAAATTTGTGAGGAAATTTGCCAGCTTTGTCAAGACAACCATGAGGAGAGTAACCAACTATGC
 CAGGAAGTCTCAGTAAAGCTGGCAGGATGGTCCATGGATTCCCTGTAATGTTGATAGCACGGCCAGG
 AAACCTTATGGAATTTGGCAGACCAACCAAGAGATCCCTGAAGATCCATACCAGGAGTCTCTGTGAA
 GGTTGGCGTGTGGCTCAGAAGGCCCTGCCATCAGTGAAGTATCTCAAGACATCCCTGAGGCTGACAAA
 CCATCCCAAGAGCTCTCTGAGGAGACTGAGCTGCAGGCTCAGGAGGCTCTGAGGAGATTGATCAGGAGT
 CTGAGGTGGTTGATGAGCTGCCTCTGAGGCTATCTCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_178795
Insert Size: 4311 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:	NM_178795.4 , NP_848910.3
RefSeq Size:	5559 bp
RefSeq ORF:	4311 bp
Locus ID:	327655
UniProt ID:	A2ARP1
Cytogenetics:	2 E5
Gene Summary:	<p>Bifunctional inositol kinase that acts in concert with the IP6K kinases IP6K1, IP6K2 and IP6K3 to synthesize the diphosphate group-containing inositol pyrophosphates diphosphoinositol pentakisphosphate, PP-InsP5, and bis-diphosphoinositol tetrakisphosphate, (PP)2-InsP4. PP-InsP5 and (PP)2-InsP4, also respectively called InsP7 and InsP8, regulate a variety of cellular processes, including apoptosis, vesicle trafficking, cytoskeletal dynamics, exocytosis, insulin signaling and neutrophil activation. Phosphorylates inositol hexakisphosphate (InsP6) at positions 1 or 3 to produce PP-InsP5 which is in turn phosphorylated by IP6Ks to produce (PP)2-InsP4. Alternatively, phosphorylates at position 1 or 3 PP-InsP5, produced by IP6Ks from InsP6, to produce (PP)2-InsP4. Activated when cells are exposed to hyperosmotic stress.</p> <p>[UniProtKB/Swiss-Prot Function]</p>