

Product datasheet for **SC326377**

HISPPD2A (PIIP5K1) (NM_001130859) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HISPPD2A (PIIP5K1) (NM_001130859) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIIP5K1
Synonyms:	HISPPD2A; hsVIP1; IP6K; IPS1; VIP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326377 representing NM_001130859. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGTCATTGACGGCCAGTGAGGGCGAGAGTACCACGGCCACTTCTTCTTGGAGCTGGAGATGAG
GGGCTGGGCACCCGTGGAATAGGCATGAGGCCAGAAGAGAGTGACAGCGAGCTCCTTGAGGATGAGGAG
GATGAAGTGCCTCCTGAACCTCAGATCATTGTTGGCATCTGTGCCATGACCAAGAAATCCAAGTCCAAG
CCAATGACTCAAATCCTAGAGCGACTCTGCAGATTTGACTACCTGACTGTTGTCATTCTGGGAGAAGAT
GTAATCCTTAATGAACCTGTGAAAACCTGGCCATCCTGCCACTGCCTCATCTCTTCCACTCCAAAGGC
TTTCTCTGGACAAAGCTGTTGCTTACTCCAAGCTTCGAAACCCCTTTCTATCAATGATCTGGCCATG
CAGTATTACATCCAAGATAGGAGGGAGGTGTACCGGATCCTGCAGGAAGAGGGTATTGATCTGCCTCGA
TATGCTGTGCTCAACCGTGATCCTGCCCGCCTGAGGAATGCAACCTGATAGAAGGTGAAGACCAAGTA
GAGGTCAATGGAGCTGTCTTTCCCAAGCCCTTTGTGGAGAAGCCAGTGAGTGCAGAAGACCACAATGTT
TACATCTACTACCCAGCTCAGCTGGAGGAGGAAGCCAGCGTCTCTTTCGTAAGATTGGCAGCCGAAGC
AGTGTCTACTCTCCTGAGAGCAGCGTCCGAAAGACGGGGTGTACATCTATGAGGAGTTTATGCCAACA
GATGGCACAGATGTCAAGGTGTATACAGTGGGGCCAGATTATGCCATGCTGAAGCTAGAAAATCTCCA
GCTTTGGATGGGAAGGTTGAACGAGACAGTGGGGGAAAGAGATTCGATATCCAGTCATGCTGACTGCC
ATGAAAAGCTGGTGGCCAGGAAAGTCTGCGTAGCTTTCAAGCAACAGTTTGTGGATTTGACCTTCTT
CGTGCCAATGGTCATTCTTTGTGTGTGATGTCAATGGCTTTAGTTTTGTCAAGAACTCGATGAAAATAC
TACGATGACTGTGCCAAGATTCTGGGGAACACCATAATGCGGGAGCTTGCCCCACAGTTCAGATTCCA
TGGTCCATCCCCACGGAGGCTGAGGACATTCCATTGTTCCACACATCTGGCACTATGATGGAACCTT
CGTTGTGTCATTGCAATTATTCGTATGGGGATCGTACTCCCAAGCAGAAGATGAAGATGGAAGTGAAA
CACCCAAGGTTTTTGTCTGTTTGA AAAACATGGTGGCTACAAGACAGGGAAATTA AAACCTCAAGCGA
CCTGAGCAGCTCCAGGAGGTGCTGGATATCACAAGGCTGTTGTTGGCTGAACTGGAGAAAGAACCAGGT
GGTGAGATCGAGGAGAAGACTGGAAAACAGAGCAGCTGAAGTCTGTACTGGAGATGTATGGTCACTTC
TCAGGTATAAACCGGAAGGTACAATTGACTTACTACCCTCATGGAGTAAAAGCTTCTAATGAGGGGCAA
```

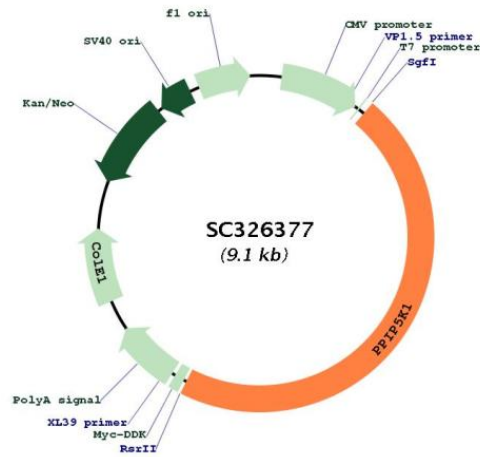


[View online »](#)

GATCCACAGAGGGAACTCTGGCCCATCTCTGTTGCTGGTACTGAAGTGGGGTGGAGAACTGACTCCT
 GCTGGCCGTGTTCAAGCTGAGGAGCTGGGGCGAGCTTTTCGCTGCATGTACCCTGGAGGACAGGGTGAC
 TATGCTGGCTTCCTGGTTGTGGGCTGCTTCGTCTCCATAGCACTTTCCGCCACGATCTCAAGATCTAT
 GCCTCTGATGAGGGTCTGTTCAGATGACTGCTGCTGCCTTCGCCAAGGGCCTTCTGGCTCTAGAAGGG
 GAGCTGACACCCATTTTGGTGCAATGGTGAAGAGTGCCAACATGAATGGGCTACTGGACAGCGATGGG
 GATTCCCTTGAGCAGCTGCCAGCACCGGGTGAAGGCTCGGCTGCACCATATTCTACAGCAGGATGCGCCC
 TTTGGCCCTGAGGACTACGATCAGCTGGCTCCCACCAGAAGTACTTCCCTGCTCAACTCCATGACTATC
 ATCCAGAATCCTGTGAAGTCTGTGATCAGGTATTTGCCCTGATCGAAAACCTCACCCACCAGATCCGG
 GAACGAATGCAGGACCCAGGTCTGTAGACCTGCAGCTCTACCACAGTGAGACACTAGAGCTAATGCTA
 CAGCGTTGGAGCAAGCTGGAGCGTGACTTTCGACAGAAGAGTGGGCGCTATGATATCAGTAAGATCCCT
 GACATCTATGACTGTGTCAAGTATGATGTGCAGCACAATGGGAGTCTGGGACTTCAAGGCACAGCAGAG
 TTGCTCCGTCTCTAAGGCACTGGCTGATGTGGTCATTTCCCAGGAGTACGGGATCAGTCGGGAGGAG
 AAAGTGGAAATGCTGTGGGCTTCTGTCTTCCACTGTTGCGGAAGATACTACTTGACCTGCAGAGAACC
 CACGAGGATGAGTCTGTCAACAAGCTGCATCCCCTGACTCCCGAGGCGTCTCTCCCAGGTCGCCAC
 GTTCGAACGCGTCTCTATTTACCAGTGAGAGCCATGTCCACTCCCTGCTCAGTGTCTTCGGTTATGGA
 GGACTTCTTGATGAGACCCAGGATGCACAATGGCAGCGAGCTTTGGATTATCTTAGTGCCATCTCAGAG
 CTTAACTACATGACCCAGATTGTCATCATGCTTTATGAGGACAACACACAGGATCCCTTATCAGAGGAA
 CGGTTCCATGTGGAGCTACACTTCAGCCCCGGAGTGAAAGGTGTTGAGGAAGAAGGCAGTGCCCCGGCT
 GGCTGTGGATTCCGTCCAGCCTCTTCTGAGAATGAGGAGATGAAAACCAACCAAGGCAGTATGGAGAAC
 CTGTGTCCAGGAAAGGCATCAGATGAACCAGACCGGGCATTGCAGACTTCACCCAGCCTCCTGAGGGC
 CCTGGCCTTCCGAGGAGATCACCCCTATTTCGTAACCGAAAAGCTGGTTCATGGAGGACTTTTCTGAG
 ACTTCATCCTCGAGGCTTGGTGGCTACCGGCTCTTTTCATCTTCACGGCCACCCACAGAAATGAAGCAG
 AGTGGCCTAGGCTCACAGTGCACAGGGCTGTTCCAGCACCACAGTGTGGTGGCTCCTCCAGTGCCCCG
 AATCTTCAGGACTACGCCCGCAGCCATGGCAAAAAGCTACCACCTGCCAGTCTGAAGCACCGAGATGGG
 TTTGAAGGGTGTTCATGGTGCCTACCATCTACCTCTGGAAAACACTGCATAATGCCCTTTCCCTACGT
 CAAGTGAGTGAATTTCTGAGTAGAGTCTGCCAGCGCCACTGATGCCAGGCACAGGCATCTGCAGCC
 CTCTTTGATTCCATGCACAGCAGCCAGGCTCAGATAACCCATTTTCTCCACCAGTACTCTTCATTCA
 CCTCCCCTGCAACTCCAGCAGCGCTCTGAGAAGCCCCCTTGGTACAGCAGTGGCCCTTCTAGCACTGTG
 TCCAGTGTGTCCTTCTCCCCTACTACAGTAGATGGTAACTCCCAATTTGGCTTCAAGTATCAACCC
 TCCCTAAATTCACACGTGGCTGAAGAACATCAAGGCCTTGGGCTGCTCCAGGAGACCCCTGGGAGTGA
 GCACAAGAGCTCTCCATAGAAGGGGAGCAAGAGCTTTTGAACCAATCAGTCCCACAGGTGCCACCT
 ATGGAAACCAGCCAGCCATACGAGGAGGTGAGCCAGCCATGTGAGGAGTCCCTGACATCAGCCAGCCA
 TGCCAGGACATTTCTGAGGCGCTCAGCCAGCCATGTGAGAAGGTCCCTGACATCAGCCAGCAATGCCAG
 GAGAACCATGACAATGGTAACCACACATGCCAGGAGGTCCCTCACATCAGCCAGCCATGCCAGAAGTCC
 AGCCAACGTGCCAGAAAGTCTCTGAGGAAGTTTCCAGCTATGTCTGGAGAACTCCGAGGAGGTGAGC
 CAGCCATGCCAGGGGTCTCTGTGGAGTTGGCAAGCTGGTCCATAAGTTCCATGTAGGGGTTGGTAGC
 TTGGTCCAGGAAACCCTTGTAGAAGTTGGCAGCCAGCTGAAGAGATCCCTGAGGAGGTGATCCAGCCA
 TACCAGGAGTTCTCTGTGGAGTTGGCAGGCTGGCCAGGAGACTTCTGCGATCAATCTGTTATCTCAG
 GGATCCCTGAGATTGATAAACCATCCCAAGAGTTCCCTGAGGAGATTGATCTGCAGGCCAGGAGGTC
 CCTGAGGAGATAAATAG
 AGCGGACCGACGCTACGCGGCCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
 ATCCTGGATTACAAGGATGACGACGATAAAGTTTAA

Restriction Sites:

SgfI-RsrII

Plasmid Map:


ACCN: NM_001130859

Insert Size: 4227 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001130859.2](#)

RefSeq Size: 5641 bp

RefSeq ORF: 4227 bp

Locus ID: 9677

UniProt ID: [Q6PFW1](#)

Cytogenetics: 15q15.3

MW: 156.6 kDa

Gene Summary: This gene encodes a dual functional inositol kinase. The encoded enzyme converts inositol hexakisphosphate to diphosphoinositol pentakisphosphate and diphosphoinositol pentakisphosphate to bis-diphosphoinositol tetrakisphosphate. This protein may be important for intracellular signaling pathways. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 15.[provided by RefSeq, Jun 2010]
Transcript Variant: This variant (6) differs in the 5' UTR compared to variant 2. Variants 2 and 6 both encode the same isoform (2).