

Product datasheet for **SC108647**

HISPPD2A (PIIP5K1) (NM_014659) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HISPPD2A (PIIP5K1) (NM_014659) Human Untagged Clone
Tag:	Tag Free
Symbol:	HISPPD2A
Synonyms:	HISPPD2A; hsVIP1; IP6K; IPS1; VIP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108647 sequence for NM_014659 edited (data generated by NextGen Sequencing)

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ATGTGGTCATTGACGGCCAGTGAGGGCGAGAGTACCACGGCCCACTTCTCCTTGGAGCT
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 CAGGAGGTCCCTGAGGAGATAAATTAG

Clone variation with respect to NM_014659.5
 2907 t=>c

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014659 unedited TTTTGTATACGACTCCTATAGGCGGCCGGAATTCGGCACGAGGGCTGCGCGAGCGGAGG GAGGCGGGACTCAAGAGTAGCCTTCCTCGAGGACCTGCCTTTCCATTTGCTGCCTGAAG TTAATGTTTCTTGCTGGCCAAATCAGGGACATGCCGGCATTAGCGGGATGAGTGGGTGTT CCGGCAGGGATGTGGTCATTGACGGCCAGTGAGGGCGAGAGTACCACGGCCCACTTCTTC CTTGGAGCTGGAGATGAGGGCTGGGCACCCGTGGAATAGGCATGAGGCCAGAAGAGAGT GACAGCGAGCTCCTTGAGGATGAGGAGGATGAAGTGCCCTCCTGAACCTCAGATCATTGTT GGCATCTGTGCCATGACCAAGAAATCCAAGTCCAAGCCAATGACTCAAATCCTAGAGCGA CTCTGCAGATTTGACTACCTGACTGTTGTCATTCTGGGAGAAGATGTAATCCTTAATGAA CCTGTGGAAAACCTGGCCATCCTGCCACTGCCTCATCTCTTTCCACTCCAAAGGCTTTCT CTGGACAAAGCTGTTGCTTACTCCAAGCTTCGAAACCCCTTTCTTATCAATGATCTGGCC ATGCAGTATTACATCCAAGATAGGAGGGAGGTGTACCGGATCCTGCAGGAAGAGGGTATT GATCTGCCTCGATATGCTGTGCTCAACCGTGATCCTGCCCGCCCTGAGGAATGCAACCTG ATAGAAGTGAAGACCAAGTAGAGGTCAATGGAGCTGTCTTTCCAAGCCCTTTGTGGAGA AGCCAGTGAGTGCAGAAGACCACATGTTTACATCTACTACCCAGCTCAGCTGGAGGAGG AAGCCAGCGTCTCTTTCGTAAGATGGNCAGCCGAAGCAGTGTCTTACTCTCC
Restriction Sites:	NotI-NotI
ACCN:	NM_014659
Insert Size:	4700 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:	<u>NM_014659.3, NP_055474.3</u>
RefSeq Size:	5565 bp
RefSeq ORF:	4227 bp
Locus ID:	9677
UniProt ID:	<u>Q6PFW1</u>
Cytogenetics:	15q15.3
Domains:	acid_phosphat

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 (2) encodes isoform 2. Variants 2 and 6 both encode the same isoform (2).