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Product datasheet for SC103513

PPIP5K2 (NM_015216) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPIP5K2 (NM_015216) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPIP5K2
Synonyms:	CFAP160; DFNB100; HISPPD1; IP7K2; VIP2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC103513 sequence for NM_015216 edited (data generated by NextGen Sequencing)

ATGAGTGAAGCCCCCAGATTCTTCGTTGGACCAGAAGATACAGAAATAAATCCTGGAAAT
TATCGACATTTCTTCCACCATGCAGATGAAGACGATGAGGAGGAAGATGATTCTCCACCA
GAAAGGCAGATTGTGGTTGGAATATGTTCCATGGCAAAGAAATCCAAATCCAAACCAATG
AAGGAAATTCTTGAACGGATCTCCTTATTTAAATATATCACAGTAGTAGTATTTGAAGAG
GAGGTTATTTTGAATGAACCAGTGGAAAACTGGCCTTTATGTGATTGTCTTATTTCTTTC
CATTCTAAAGGATTTCCACTGGACAAAGCGGTTGCCTATGCAAAACTCAGGAATCCATTT
GTAATCAATGACTTGAATATGCAGTATCTCATACAAGATAGGAGAGAAGTATATAGTATT
CTTCAAGCTGAAGGTATTTTACTTCCTCGTTATGCTATTTTGAACCGTGACCCAAATAAT
CCCAAAGAATGTAATCTGATTGAAGGGGAAGATCATGTAGAAGTAAATGGGGAAGTTTTT
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CCAACTTCTGCTGGTGGTGGAAGTCAAAGACTCTTTAGAAAGATTGGCAGTAGAAGTAGT
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AGATACCCTGTTATTCTCAATGCACGAGAGAAATTAATTGCTTGGAAAGTCTGCCTTGCT
TTTAAGCAAACAGTTTGTGGCTTTGATTTGTTACGGGCCAATGGACAGTCCTATGTCTGT
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ATACTTGGAAATATTGTAATGCGAGAACTTGCTCCACAATTTCATATTCCATGGTCAATA
CCCTTAGAAGCTGAAGATATCCCAATTGTACCAACTACATCTGGAACTATGATGGAACTT
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CAACTTAAGACTGTATTAGAGATGTATGGTCATTTTTCTGGAATAAATCGTAAGGTTCAG
TTGACCTATCTCCCTCATGGTTGTCCTAAAACATCTAGTGAAGAGGAGGACAGCCGAAGA

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GAAGAACCATCTTTACTTTTGGTTCTAAAATGGGGAGGTGAATTAACTCCTGCAGGCAGG
GTCCAGGCTGAAGAACTTGGAAGAGCCTTCAGGTGTATGTATCCTGGAGGTCAAGGAGAT
TATGCAGGATTTCCTGGTTGTGGTTTACTTAGATTACATAGCACCTACAGACATGACCTC
AAAATATATGCCTCTGATGAAGGACGAGTCCAGATGACTGCAGCTGCTTTTGCAAAGGGG
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CTGAGAACACCAAGAACTCTTGTGGAACAGAAGCAGAATCCTACTGTAGGGTCTCACTGT
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CAAGTGGATGAATTTCTTGCTTCCATTGCTTCTCCATCATCTGACGTTCCACGGAAGACC
GCTGAAATTTCCTCTACAGCTTTACGTTCCAGTCCAATAATGAGAAAAAAAGTATCTTTA
AATACGTATACACCTGCAAAGATCCTCCCAACACCACCAGCTACCTTAAAGAGCACTAAA
GCAAGCAGCAAACCAGCTACAAGTGGACCTTCTAGTGCAGTTGTTCCTAATACCTCATCT
CGGAAAAAGAATATAACTAGCAAAACAGAAACGCATGAACACAAAAAAAACACTGGGAAA
AAGAAATGA

Clone variation with respect to NM_015216.2
3124 c=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015216 unedited
TTTGTAATACGAACTCACTATAGGGCGGCCGCGAATTCGCACGAGGCTGAGGTTCCCTTA
TGTGGCCCTATAGCTGTTACTGAAGGAAGTAGCCTACGTCCACGCCTACAACTGAAGTCT
CTTGACAAACACCTCACCCCTGCCTCCGGGATGAAAGGGGGTAACCTAGACCTGAATGGG
CTTGACCATCTCACAACTGCTCGCGTGACGACCGCATTCGTGGCAGGTAAGAAGATTGCT
GTATCAACTCAAGAAAGCAGTAACTTCACTGTCTTTGTATTTTGAATTGCAACAACAACT
TTGATATCAACAATGAAGCAATGATATCTAAGAACAAAAGAGTATTTGCCAACAGTCATC
ATAATATCAAGTGATTGTATAAGCAGAAACAAGCTGTCACAGACCTGTGCGTCAGCTAAT
ATATGGAGAATGCTTTCTTCTGATACTATTTACTTAGAGGCAGTTTTAATATAAATCATT
TCAATTATATCTACATCAAATAAAATAAAAATGAGTGAAGCCCCCAGATTCTTCGTTGGA
CCAGAAGATACAGAAATAAATCCTGGAAATTATCGACATTTCTTCCACCATGCAGATGAA
GACGATGAGGAGGAAGATGATTCTCCACCAGAAAGGCAGATTGTGGTTGGAATATGTTCC
ATGGCAAAGAAATCCAAATCCAAACCAATGAAGGAAATTCTTGAACGGATCTCCTTATTT
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TGGCCTTTATGTGATTGGCTTATTTCTTTCCATTCTAAAGGATTTCCACTGGACAAAACG
GGTTGCCTATGCCAAACTCAGGAATCCATTTGTAATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015216 unedited
TCTGTGGACCGCGGCCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTGATTCTGGA
AAATTTTAATTAGGTTCCACTTTAAAAAAAAATAGCTTCCTTATGACCTCCACAGTGAGT
ACATTAACTACATTTTCACAAACAGAAAACTTACATACATTCAACTGTTTACAAGACATG
TCTCCATATAACACATTTACATTCATGTGAAATCTATGAACTTCTTTAATTGCATATATT
TATGACTCTTACATCTGGTACCTTTTAAAACAGCTAACATATAGTATGCTTATTTCCTAT
AAGTTAATTAATATATGACTATTTAAGGTGAGAAGAGTCTCATTTGAAGAATTACAATAG
TTATATTCATACCATGGGAAATCAATAGTTTTTCTAAACATAAATTTCAAGCTAAAGCTT
TAGCAATTTAAGTTATTTAACTACCAATGCATGAAATTCTTATCAGATTGTCCCATTTGG
ATTACAGTTTAAGTCATTTCAAGCTGTTCACAATTATTTGTGCATTGGTGGGGGGGAAAG
CACCAAGGATAATAAATTGATTTTTCACATCACAGATGAAATCACAGCGCANTGATTTCA
ATATCCCTTCAAAAATCTAATCATTTATAAAGAGCATTTATTTCAAATGCTCAATCTTTA
AGCTTTCTTAGTGTGATCAACTGATACACTANGGATAAGAATGGAAATGGTTAAAAACAG
ATGCTATACATAATACTTACTAACCTAACAGAATTCAGATTTCTCCTAACATTGTTGATT
TCCATTTTTGAACTGACTTCTTTAGATCTAAAAAGAACTCTGAAAGTAAGTGTAACATTT
TACACTTTGTCACTATACTTTAAAAGAACTCTTGAAGTGCCCTTTCTTGGCAAATACAAA
ACAAAAGTTTTCTGAAGAACAAAGCACTTGGATGGGTAGGAAAATATAAGGAAATATTTT
CTACAATTAAA

Restriction Sites: NotI-NotI

ACCN: NM_015216

Insert Size: 6000 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:	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_015216.2, NP_056031.2
RefSeq Size:	5293 bp
RefSeq ORF:	3669 bp
Locus ID:	23262
UniProt ID:	O43314
Cytogenetics:	5q21.1
Gene Summary:	This gene encodes a member of the histidine acid phosphatase family of proteins. Despite containing a histidine acid phosphatase domain, the encoded protein functions as an inositol pyrophosphate kinase, and is thought to lack phosphatase activity. This kinase activity is the mechanism by which the encoded protein synthesizes high-energy inositol pyrophosphates, which act as signaling molecules that regulate cellular homeostasis and other processes. This gene may be associated with autism spectrum disorder in human patients. [provided by RefSeq, Sep 2016] Transcript Variant: This variant (2) lacks three internal exons in the coding region, but maintains the reading frame, compared to variant 4. The resulting isoform (2) lacks two internal segments, compared to isoform 3. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.