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Product datasheet for SC125851

INPP5B (NM_005540) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INPP5B (NM_005540) Human Untagged Clone
Tag:	Tag Free
Symbol:	INPP5B
Synonyms:	5PTase
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_005540 edited
GTCCCGTGCGCCCTGTGGTGACAGCTCAGGAGGGTGTGTGCGCTCAGCAGGGGCCAGCAT
GGACCAGTCTGTGGCAATCCAGGAGACGCTGGCTGAGGGGGAATACTGCGTCATCGCGGT
GCAAGGTGTGCTGTGTGAGGGGGACAGCCGGCAGAGCCGCCTCCTGGGACTCGTGCGCTA
CCGCCTGGAGCATGGCGGCCAGGAACACGCTCTCTTCCTCTATACGCACCGGAGGATGGC
CATTACCGGGGACGATGTCTCTCTGGACCAGATAGTGCCAGTCTCGCGGGATTTTACGCT
GGAAGAAGTGTCCCCAGATGGTGAACTCTACATCCTTGGCTCAGATGTGACCGTCCAGCT
GGACACAGCAGAGCTTAGCCTCGTATTCCAACTGCCCTTTGGTTCACAAACCAGGATGTT
CCTCCACGAAGTTGCCAGGGCCTGTCCAGGCTTCGATTCTGCGACCCGGGATCCTGAATT
CCTGTGGCTGTCTCGGTATAGGTGCGCAGAGCTGGAGCTGGAGATGCCAACGCCGCGCGG
TTGTAACTCGGCCCTAGTTACCTGGCCAGGGTACGCGACAATTGGCGGAGGTGGTTCTAA
CTTTGATGGTTTGAGACCAAATGGGAAGGGAGTGCCTATGGACCAAAGCTCCAGGGGTCA
AGATAAACCAGAAAGCTTGCAACCAAGACAGAATAAATCCAAGTCCGAAATTACTGACAT
GGTTCGCTCCTCCACTATCACAGTGTCGGACAAGGCTCATATTTTATCCATGCAGAAGTT
TGGACTGCGAGATACAATTGTGAAATCACATCTACTACAGAAAGAAGAGGATTACACCTA
TATCCAGAACTTCAGGTTTTTTGCGGGAACATACAATGTAAATGGGCAGTCCCCCAAAGA
ATGCCTCCGGCTGTGGCTGAGCAATGGTATCCAGGCCCCAGATGTCTATTGTGTAGGGTT
CCAGGAGCTTGATCTGAGTAAGGAAGCTTTTTTCTTTCACGATACCCCAAAGGAGGAAGA
GTGGTTCAAAGCTGTGTCAGAGGGTCTTCATCCAGATGCCAAATATGCAAAGGTGAAGCT
TATCCGACTGGTTGGGATTATGCTGCTGTTATATGTCAAACAGGAGCATGCAGCTTATAT
CTCAGAAGTGGAAGCCGAGACTGTGGGGACAGGAATCATGGGGAGGATGGGCAACAAGGG
AGGCGTGGCGATCAGGTTCCAGTTCCACAACACCAGCATCTGCGTTGTGAATTCTCACTT
GGCAGCCCACATTGAAGAGTATGAGAGGAGGAACCAGGACTATAAGGACATTTGTTCTCG
AATGCAGTTTTGTCAGCCTGACCCAAGCCTTCCCCCTCTCACCATCAGCAACCATGATGT
GATCTTGTGGCTGGGGGACCTCAACTACAGGATAGAAGAGCTGGATGTGGAAAAAGTGAA
AAAGCTCATCGAAGAGAAGGACTTTCAAATGCTGTATGCATATGATCAGCTGAAAATTCA
GGTGGCCGCAAAGACTGTCTTTGAAGGCTTCACAGAGGGTGAGCTCACATTCCAGCCTAC

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TTACAAGTATGATACGGGCTCTGACGACTGGGATACCAGTGAGAAGTGCCGTGCTCCTGC
CTGGTGTGATCGGATTCTCTGGAAAGGGAAGAACATCACTCAGCTGAGTTACCAGAGCCA
CATGGCCCTGAAGACCAGTGACCACAAGCCTGTCAGCTCAGTGTTTGACATCGGGGTGAG
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TGGCTCAATAACTCTGAGGCTGGTTGCTCAGCCTCTGAGGGCAATACAGGCATTTAAAAA
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TGGGAGCATCGCTTGAGACCAGGAGTTTGGGACCAGGCTGGGCAACACAGGGAGACCCCC
TCTCTACAAAAACATTTTTAAAAAATTAGCTGGGCGTGGTGATGCATGCCTGTGGTCCCA
GTTACTTGGGAGGCTGACGTGGGTGGCTCACTTGAGCACAGGAGTTTGAGGCTGCAGTGA
CCTATGACCACATCACTGTACGCCAGCCCGGGTGAGAGAGGGAGACCCCGTCTCTAAAAA
TAAAATGTAAAATCACTGAAAAAATGAGTGTTCGGTGAAACAAGTGGGATTTTCTGGGCC
AGCAAGTCTTCCAAACTGTATATGATGCATCCTGTCTCCATGTGTAATATATTTTAATGA
TAAATGTATTTTTAACAGTGAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005540 unedited
TAGGGCGGCCGCGACATCAGATATGGTACCGGTCCGGATCTCCCGGGATATCGTCGACCC
ACGCATCCGGTCCCGTGCGCCCTGTGGTGACAGCTCAGGAGGGTGTGTGCGCTCAGCAGG
GGCCAGCATGGACCAGTCTGTGGCAATCCAGGAGACGCTGGCTGAGGGGGAATACTGCGT
CATCGCGGTGCAAGGTGTGCTGTGTGAGGGGGACAGCCGGCAGAGCCGCCTCCTGGGACT
CGTGCGCTACCGCCTGGAGCATGGCGGCCAGGAACACGCTCTCTTCCTCTATACGCACCG
GAGGATGGCCATTACCGGGGACGATGTCTCTCTGGACCAGATAGTGCCAGTCTCGCGGGA
TTTTACGCTGGAAGAAGTGTCCCCAGATGGTGAACTCTACATCCTTGGCTCAGATGTGAC
CGTCCAGCTGGACACAGCAGAGCTTAGCCTCGTATTCCAACTGCCCTTTGGTTCACAAAC
CAGGATGTTCCTCCACGAAGTTGCCAGGGCCTGTCCAGGCTTCGATTCTGCGACCCGGGA
TCCTGAATTCCTGTGGCTGTCTCGGTATAGGTGCGCAGAGCTGGAGCTGGAGATGCCAAC
GCCGCGCGGTTGTAACTCGGCCCTAGTTACCTGGCCAGGGTACGCGACAATTGGCGGAGG
TGGTTCTAACTTTGATGGTTTGAGACCAAATGGGAAGGGAGTGCCTATGGACCAAAGCTC
CAGGGGTCAAGATAAACCAGAAAGCTTGCAACCAAGACAGAATAAATCCAAGTCCAAATT
ACTGACATGGTTCGCTCCTCCACTATCACATTGTCCGAA
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Restriction Sites: NotI-NotI

ACCN: NM_005540

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_005540.1, NP_005531.1

RefSeq Size: 3995 bp

RefSeq ORF: 2247 bp

Locus ID: 3633

UniProt ID: P32019

Cytogenetics: 1p34.3

Protein Families: Druggable Genome

Protein Pathways: Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

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Gene Summary: This gene encodes a member of a family of inositol polyphosphate-5-phosphatases. These enzymes function in the regulation of calcium signaling by inactivating inositol phosphates. The encoded protein is localized to the cytosol and mitochondria, and associates with membranes through an isoprenyl modification near the C-terminus. Alternatively spliced transcript variants of this gene have been described. [provided by RefSeq, Jul 2014] Transcript Variant: This variant (1) encodes the longest isoform (1). Variants 1 and 5 both encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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