

Product datasheet for **RR201270**

Inpp5a (NM_001108923) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Inpp5a (NM_001108923) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Inpp5a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201270 representing NM_001108923
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGGAAGGCGGCCCGCCCGGCACCGGGTCTGCTGGTCACGGCCAACGTGGGCTCGCTCTTCG
ACGACCCAGAAAACCTGCAGAAGAACTGGCTTCGGGAATTTACCAGGTCCTGCACACACAAGCCTCA
CTTCATGGCCTTGCACTGCCAAGAATTCGGAGGAAAAAACTATGAGGCCTCCATGTCTCATGTGGACAAA
TTTGTCGAAGAACTACTGTCCAGTGATGCAATGAAAGAATACAACAGGGCTCGTGTCTACCTGGATGAAA
ACTACAAGTCCCAGGAGCACTTCACGGCACTAGGAAGCTTTTATTTTCTCATGAATCCTTAAAAACAT
CTACCAGTTTGACTTTAAAGCTAAGAAGTATAAAAAAGTCACTGGCAAGGAGATCTATTCGGACACTTTG
GAGAGCACACCCATGCTGGAGAAGGAGAAGTCCACAGGACTACTTCCCGAGTGCAAATGGTCAAGAA
AAGGCTTCATCAGGACGCGGTGGTGCATTGCTGACTGTGCCTTCGACTTGGTGAACATCCATCTTTTTCA
TGATGCATCCAACCTTAGTGGCTGGGAGACAAGCCCTCTGTGTACTCGGGTGCAGGCACAAGGCTCTG
GGCTATGTGCTCGACAGAATCATCGACCAGCGATTTGAAAAAGTTTCTACTTTGTCTTCGGTGATTCA
ACTTCCGCTGGATTCCAAGTCTGTTGTAGAGACTTTGCACAAGGCCACAATGCAGACAGTCCGGGC
TGCTGATACCAATGAAGTTGTAAGTTGATATTTCCGGAGTCAGACAATGACCGTAAGGTCGTGCTCCAG
TTGAAAAAGAAGCTCTTCGACTACTTCAACCAGGACGTCTTCCGGGACAACAATGGCACTGCGCTCTTGG
AATTTGACAAGGAGTTGTCTGTCTTTAAGGACAGACTGTATGAACTGGACATCTCATTCCCCCAGCTA
CCCGTACAGTGAGGACTCCAGCCAGGGAGAACAGTACATGAACACGAGATGCCCGCTTGGTGTGATCGA
ATCCTCATGTCTTGTCTGCAAGGAGCTGTTCTTAAGTCAGAGAGCGAGGAGAAGGTTGCCACCTACG
ACCACATCGGGCCTAACGTCTGCATGGGAGACCACAAGCCGGTGTTCCTGGCCTCCGAATCGCACCCGG
GGCAGGTAACCTCACGCCCATGTACACAAGTGTGTGTCGTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201270 representing NM_001108923
 Red=Cloning site Green=Tags(s)

MAGKAAAPGTAVLLVTANVGSFLDDPENLQKNWLEFYQVLHHTKPHFMALHCQEFGGKNYEASMSHVDK
 FVKELLSSDAMKEYNRARVYLDENYKSQEHFTALGSFYFLHESLKNIYQDFDKAKKYKVTGKEIYSDTL
 ESTPMLKEKEKFPQDYFPECKWSRKGFIIRTRWCIADCAFDLVNIHLFHDASNLVAVETSPSVYSGVRHKAL
 GYVLDRIIDQRFEKVSFYFVGFDFNFRLDKSVVETLCTKATMQTVRAADTNEVVKLI FRESNDNRKVVVQ
 LEKKLFDYFNQDVFRDNGTALLEFDKELSVFKDRLYELDISFPPSYPSYSEDSSQGEQYMNTRCPAWCDR
 ILMLSAKELVLKSESEEKVATYDHI GPNVCMGDHKPVFLAFRIAPGAGKPHAHVHKCCVVQ

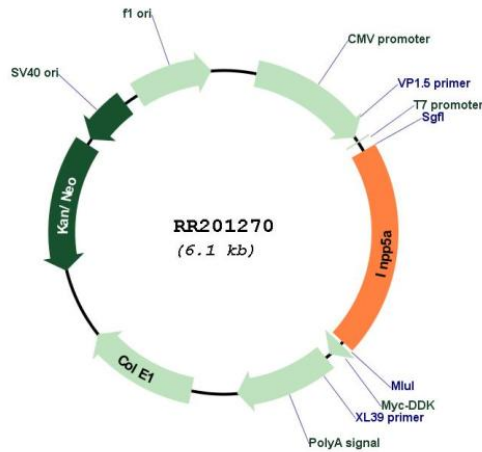
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001108923

ORF Size:	1236 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001108923.2 , NP_001102393.1
RefSeq Size:	2825 bp
RefSeq ORF:	1239 bp
Locus ID:	365382
UniProt ID:	D3Z7X1
Cytogenetics:	1q41
MW:	47.6 kDa
Gene Summary:	Phosphatase that specifically hydrolyzes the 5-phosphate of inositol 1,4,5-trisphosphate to inositol 1,4-bisphosphate, and inositol 1,3,4,5-tetrasphosphate to inositol 1,3,4-trisphosphate (PubMed:8626616). Plays a crucial role in the survival of cerebellar Purkinje cells (By similarity).[UniProtKB/Swiss-Prot Function]