

Product datasheet for MR214389

Inpp5a (NM_183144) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5a (NM_183144) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Inpp5a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR214389 representing NM_183144 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGCGGGGAAGGCGGCCGCCCGCCCGGCACCGCGGTCTGCTGGTCACGGCCAACGTGGGCTCGCTCTTCGACGACCCAGAAAACCTGCAGAAGAACTGGCTTCGGGAATTTACCAGGTCCTGCACACACAAGCCTCACTTCATGGCCTTGCACTGCCAAGAATTTGGAGGGAAAACTACGAGGCCTCCATGTCCCATGTGGACAAA
TTTGTCAAAGAATACTATCCAGTGACGCAATGAAAGAATACAACAGGGCGGTGTCTACCTGGATGAAA
ACTACAAGTCACAGGAACACTTCACGGCACTAGGAAGCTTTTATTTCTCACGAATCCTAAAAAACAT
CTACCAGTTTGACTTTAAAGCTAAGAAGTATAAAAAAGTCACTGGCAAGGAGATCTATTCGGACACTTTG
GAGAGCACACCCATGCTGGAGAAGGAGAAGTCCACAGGACTACTTTCCTGAGTGCAAATGGTCAAGAA
AAGGCTTCATCAGGACGCGGTGGTGCATTGCTGACTGTGCCTTCGACTTGGTGAACATTCATCTTTTTCA
TGATGCATCCAACCTAGTGGCCTGGGAGACAAGCCCTCAGTGTACTCCGGTGTGAGGACAAGGCTCTG
GGCTATGTGCTGGACAGAATCATCGACCAGCGATTTGAGAAAGTTTCTACTTTGTCTTCGGTGATTTCA
ACTTCCGCCTGGATTCCAAGTCTGTCGTAGAGACTCTGCACAAAGGCCACAATGCAGACAGTCCGCGC
TGCTGATACCAATGAAGTTGTAAGTTGATATTCGGGAGTCAGACAATGACCGGAAGGTCGTGCTCCAG
TTGAAAAGAAGCTCTTCGACTACTTCAACCAGGATGTCTCCGGGACAACAACGGCACTGCGCTCTTGG
AATTTGACAAGGAGTTGTCTGTCTTAAAGGACAGACTGTATGAACTGGACATCTCATTCCCCCAGCTA
CCCGTACAGTGAGGACTCCAGCCAGGGAGAACAGTACATGAACACGAGATGCCCTGCTTGGTGTGATCGC
ATCCTCATGTCCCTGTCTGCCAAGGAGCTGGTTCTTAAGTCAGAGAGCGAGGAGAAGGTTGCCACCTACG
ACCACATCGGGCCTAATGTCTGCATGGGAGACCACAAGCCGGTGTTCCTGGCCTTCCGAATCGCACCTGG
GGCAGGGAAGAGGTGCCAGCGCCGAGAGGATCCTCGAGAGGCCTCCCTGTAGCAGTGTATCCAACCTCA
TCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



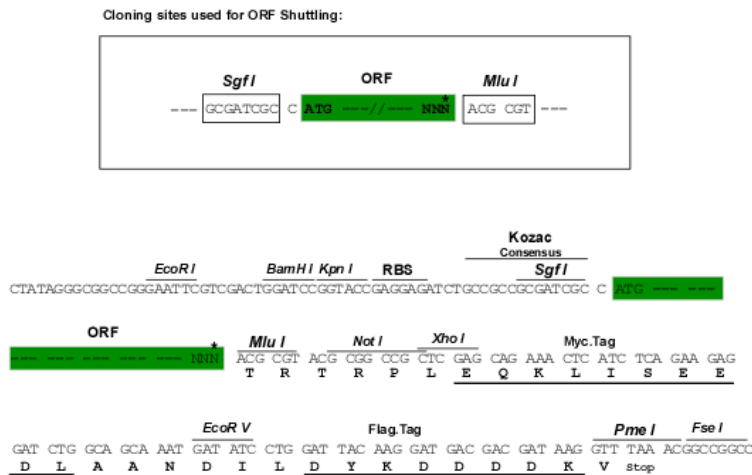
Protein Sequence: >MR214389 representing NM_183144
Red=Cloning site Green=Tags(s)

MAGKAAAPGTAVLLVTANVGSLLFDDPENLQKNWLEFYQVLHHTKPHFMALHCQEFGGKNYEASMSHVDK
 FVKELLSSDAMKEYNRARVYLDENYKSQEHFTALGSFYFLHESLKNIIYQFDKAKKYKVTGKEIYSDTL
 ESTPMLKEKEKFPQDYFPECKWSRKGFIIRTRWCIADCAFDLVNIHLFHDASNLVAVETSPSVYSGVRHKAL
 GYVLDRIIDQRFEKVSFYFVGFDFNFRLLDSKSVVETLCTKATMQTVRAADTNEVVKLIFRESNDNRKVVLLQ
 LEKKLFDFYFNQDVFQDNGTALLEFDKELSVFKDRLYELDISFPPSYPSYSEDSSQGEQYMNTRCPAWCDR
 ILMLSAKELVLKSEEEKVATYDHIGPNVCMGDHKKPVFLAFRIAPGAGKRCQRREIRLERPPCSSVSNS
 SS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_183144

ORF Size: 1266 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:

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_183144.3](#), [NP_898967.2](#)

RefSeq Size: 2792 bp

RefSeq ORF: 1269 bp

Locus ID: 212111

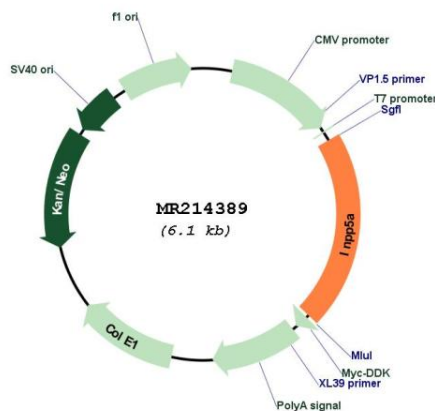
UniProt ID: [Q7TNC9](#)

Cytogenetics: 7 F4

MW: 49.3 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:26051944). Plays a crucial role in the survival of cerebellar Purkinje cells (PubMed:26051944).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214389