

## Product datasheet for **MG214389**

### Inpp5a (NM\_183144) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5a (NM_183144) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Inpp5a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG214389 representing NM_183144 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGGAAGGCGGCCGCCCGCCCGGCACCGCGGTCTGCTGGTCACGGCCAACGTGGGCTCGCTCTTCG  
ACGACCCAGAAAACCTGCAGAAGAACTGGCTTCGGGAATTTTACCAGGTCCTGCACACACAAGCCTCA  
CTTCATGGCCTTGCACTGCCAAGAATTTGGAGGGAAAACTACGAGGCCTCCATGTCCCATGTGGACAAA  
TTTGTCAAAGAATACTATCCAGTGACGCAATGAAAGAATACAACAGGGCGGTGTCTACCTGGATGAAA  
ACTACAAGTCACAGGAACACTTCACGGCACTAGGAAGCTTTTATTTTCTCACGAATCCTTAAAAAACAT  
CTACCAGTTTGACTTTAAAGCTAAGAAGTATAAAAAAGTCACTGGCAAGGAGATCTATTCGGACACTTTG  
GAGAGCACACCCATGCTGGAGAAGGAGAAGTCCACAGGACTACTTTCCTGAGTGCAAATGGTCAAGAA  
AAGGCTTCATCAGGACGCGGTGGTGCATTGCTGACTGTGCCTTCGACTTGGTGAACATTCATCTTTTTCA  
TGATGCATCCAACCTAGTGGCCTGGGAGACAAGCCCTCAGTGTACTCCGGTGTCCAGGCACAAGGCTCTG  
GGCTATGTGCTGGACAGAATCATCGACCAGCGATTTGAGAAAGTTTCTACTTTGTCTTCGGTGATTTCA  
ACTTCCGCCTGGATTCCAAGTCTGTCGTAGAGACTCTGCACAAAGGCCACAATGCAGACAGTCCGCGC  
TGCTGATACCAATGAAGTTGTAAGTTGATATTTCCGGAGTCAGACAATGACCGGAAGGTCGTGCTCCAG  
TTGGAAAAGAAGCTCTTCGACTACTTCAACCAGGATGTCTCCGGGACAACAACGGCACTGCGCTCTTGG  
AATTTTGACAAGGAGTTGTCTGTCTTTAAGGACAGACTGTATGAACTGGACATCTCATTCCCCCAGCTA  
CCCGTACAGTGAGGACTCCAGCCAGGGAGAACAGTACATGAACACGAGATGCCCTGCTTGGTGTGATCGC  
ATCCTCATGTCCCTGTCTGCCAAGGAGCTGGTTCTTAAGTCAGAGAGCGAGGAGAAGGTTGCCACCTACG  
ACCACATCGGGCCTAATGTCTGCATGGGAGACCACAAGCCGGTGTTCCTGGCCTTCCGAATCGCACCTGG  
GGCAGGGAAAGAGGTGCCAGCGCCGAGAGGATCCTCGAGAGGCCTCCCTGTAGCAGTGTATCCAACCTCA  
TCCTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

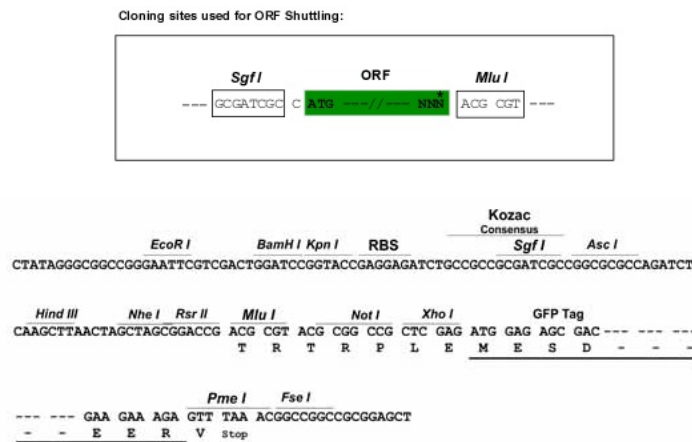
**Protein Sequence:** >MG214389 representing NM\_183144  
 Red=Cloning site Green=Tags(s)

MAGKAAAPGTAVLLVTANVGSLLFDDPENLQKNWLEFYQVLHHTKPHFMALHCQEFGGKNYEASMSHVDK  
 FVKELLSSDAMKEYNRARVYLDENYKSQEHFTALGSFYFLHESLKNIIYQDFKAKKYKVTGKEIYSDTL  
 ESTPMLKEKEKFPQDYFPECKWSRKGFIIRWCIADCAFDLVNIHLFHDASNLVAVETSPSVYSGVRHKAL  
 GYVLDRIIDQRFEKVSFYVFGDFNFRLDSKSVETLCTKATMQTVRAADTNEVVKLIFRESNDRKVVVQ  
 LEKFLFDYFNQDVFVDNNGTALLEFDKELSVFKDRLYELDISFPPSYPSYSEDSSQGEQYMNTRCPAWCDR  
 ILMLSAKELVLKSESEEKVATYDHIGPNVCMGDHKPVFLAFRIAPGAGKRCQRREILRPPCSSVSNS  
 SS

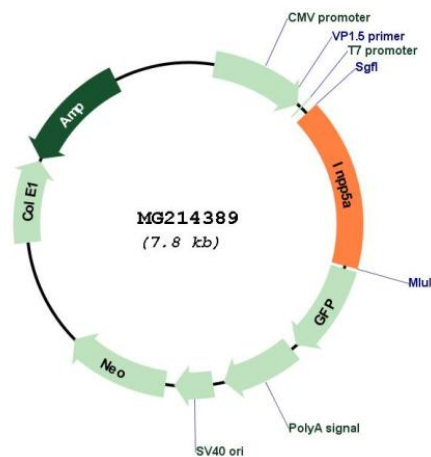
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_183144
<b>ORF Size:</b>	1266 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_183144.3</a> , <a href="#">NP_898967.2</a>
<b>RefSeq Size:</b>	2792 bp
<b>RefSeq ORF:</b>	1269 bp
<b>Locus ID:</b>	212111
<b>UniProt ID:</b>	<a href="#">Q7TNC9</a>
<b>Cytogenetics:</b>	7 F4
<b>Gene Summary:</b>	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]