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Product datasheet for MG206486

Inpp5a (BC056341) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5a (BC056341) 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:

>MG206486 representing BC056341
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGGAAGGCGGCCGCCCCCGGCACCGCGGTCCTGCTGGTCACGGCCAACGTGGGCTCGCTCTTCG
ACGACCCAGAAAACCTGCAGAAGAACTGGCTTCGGGAATTTTACCAGGTCCTGCACACACACAAGCCTCA
CTTCATGGCCTTGCACTGCCAAGAATTTGGAGGGAAAAACTACGAGGCCTCCATGTCCCATGTGGACAAA
TTTGTCAAAGAACTACTATCCAGTGACGCAATGAAAGAATACAACAGGGCGCGTGTCTACCTGGATGAAA
ACTACAAGTCACAGGAACACTTCACGGCACTAGGAAGCTTTTATTTTCTTCACGAATCCTTAAAAAACAT
CTACCAGTTTGACTTTAAAGCTAAGAAGTATAAAAAAGTCACTGGCAAGGAGATCTATTCGGACACTTTG
GAGAGCACACCCATGCTGGAGAAGGAGAAGTTCCCACAGGACTACTTTCCTGAGTGCAAATGGTCAAGAA
AAGGCTTCATCAGGACGCGGTGGTGCATTGCTGACTGTGCCTTCGACTTGGTGAACATTCATCTTTTTCA
TGATGCATCCAACTTAGTGGCCTGGGAGACAAGCCCCTCAGTGTACTCCGGTGTCAGGCACAAGGCTCTG
GGCTATGTGCTGGACAGAATCATCGACCAGCGATTTGAGAAAGTTTCCTACTTTGTCTTCGGTGATTTCA
ACTTCCGCCTGGATTCCAAGTCTGTCGTAGAGACACTCTGCACAAAGGCCACAATGCAGACAGTCCGCGC
TGCTGATACCAATGAAGTTGTAAAGTTGATATTTCGGGAGTCAGACAATGACCGGAAGGTCGTGCTCCAG
TTGGAAAAGAAGCTCTTCGACTACTTCAACCAGGATGTCTTCCGGGACAACAACGGCACTGCGCTCTTGG
AATTTGACAAGGAGTTGTCTGTCTTTAAGGACAGACTGTATGAACTGGACATCTCATTCCCCCCCAGCTA
CCCGTACAGTGAGGACTCCAGCCAGGGAGAACAGTACATGAACACGAGATGCCCTGCTTGGTGTGATCGC
ATCCTCATGTCCCTGTCTGCCAAGGAGCTGGTTCTTAAGTCAGAGAGCGAGGAGAAGGTTGCCACCTACG
ACCACATCGGGCCTAATGTCTGCATGGGAGACCACAAGCCGGTGTTCCTGGCCTTCCGAATCGCACCTGG
GGCAGGTAAACCTCACGCCCATGTACACAAGTGTTGTGTCGTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

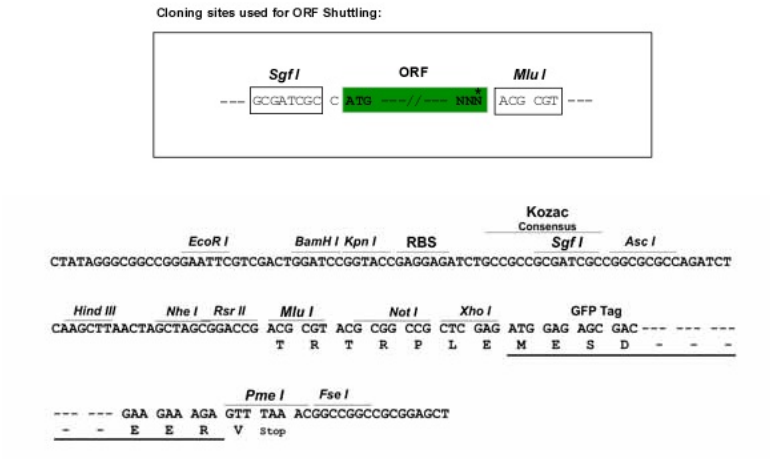
>MG206486 representing BC056341
Red=Cloning site Green=Tags(s)

MAGKAAAPGTAVLLVTANVGSLFDDPENLQKNWLREFYQVLHTHKPHFMALHCQEFGGKNYEASMSHVDK
FVKELLSSDAMKEYNRARVYLDENYKSQEHFTALGSFYFLHESLKNIYQFDFKAKKYKKVTGKEIYSDTL
ESTPMLEKEKFPQDYFPECKWSRKGFIRTRWCIADCAFDLVNIHLFHDASNLVAWETSPSVYSGVRHKAL
GYVLDRIIDQRFEKVSYFVFGDFNFRLDSKSVVETLCTKATMQTVRAADTNEVVKLIFRESDNDRKVVLQ
LEKKLFDYFNQDVFRDNNGTALLEFDKELSVFKDRLYELDISFPPSYPYSEDSSQGEQYMNTRCPAWCDR
ILMSLSAKELVLKSESEEKVATYDHIGPNVCMGDHKPVFLAFRIAPGAGKPHAHVHKCCVVQ

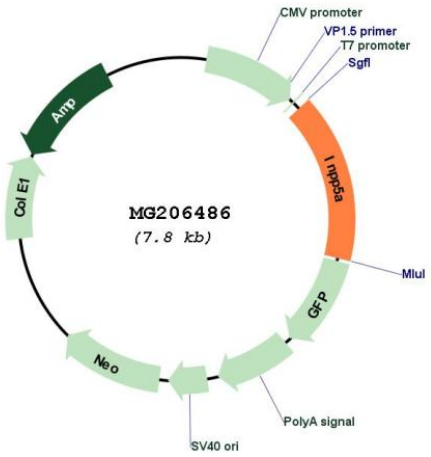
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC056341

ORF Size:	1238 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:	BC056341, AAH56341
RefSeq Size:	2843 bp
RefSeq ORF:	1238 bp
Locus ID:	212111
Cytogenetics:	7 F4
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]