

Product datasheet for **RG222083**

INPP5A (NM_005539) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INPP5A (NM_005539) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INPP5A
Synonyms:	5PTASE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222083 representing NM_005539 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGGAAGGCGGCCGCCCGGGCACCGCGGTGCTGCTGGTACGGCCAACGTGGGCTCGCTCTTCG
ACGACCCAGAAAACCTGCAGAAGAACTGGCTTCGGGAATTTACCAGGTCGTGCACACACAAGCCGCA
CTTCATGGCCTTGCACTGTCAGGAGTTTGGAGGGAAGAACTACGAGGCCTCCATGTCCCACGTGGACAAG
TTCGTCAAAGAATATTGTCGAGTGATGCGATGAAAGAATATAACAGGGCTCGAGTCTACCTGGATGAAA
ACTACAAATCCCAGGAGCACTTCACGGCACTAGGAAGCTTTTATTTTCTCATGAGTCTTAAAAAAT
CTACAGTTTGACTTTAAAGCTAAGAAGTATAGAAAGGTCGCTGGCAAAGAGATCTACTCGGATACCTTA
GAGAGCACGCCCATGCTGGAGAAGGAGAAGTTCCGCAAGGACTACTTCCCGAGTGCAAATGGTCAAGAA
AAGGCTTCATCCGGACGAGGTGGTGCATTGCGACTGTGCCTTTGACTTGGTGAATATCCATCTTTTCCA
TGATGCTTCCAATCTGGTCGCCTGGGAAACAAGCCCTTCCGTGTACTCGGAATCCGGCACAAGGCACTG
GGCTACGTGCTGGACAGAATCATTGATCAGCGATTCGAGAAGGTTTCTACTTTGTATTTGGTGATTTCA
ACTTCCGGCTGGATTCCAAGTCCGTGCTGGAGACGCTCTGCACAAAAGCCACCATGCAGACGGTCCGGGC
CGCCGACACCAATGAAGTGGTGAAGTCAATTTTCGTGAGTCGGACAACGACCGGAAGGTTATGCTCCAG
TTAGAAAAGAACTCTTCGACTACTTCAACCAGGAGTTTTCCGAGACAACAACGGCACCCGCTCTTGG
AGTTTGACAAGGAGTTGCTGTCTTTAAGGACAGACTGTATGAACTGGACATCTCGTCCCTCCAGCTA
CCCGTACAGTGAGGACGCCCGCCAGGGTGAAGTACATGAACACCCGGTGCCCGCCTGGTGTGACCCG
ATCCTCATGTCCCGTCTGCCAAGGAGCTGGTGTGCGGTGCGGAGCGAGGAGAAGGTTGTACCTATG
ACCACATTTGGGCCAACGTCTGCATGGGAGACCACAAGCCGTGTTCTGGCCTTCCGAATCATGCCCG
GGCAGGTAACCTCATGCCATGTGCACAAGTGTGTGCTGTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222083 representing NM_005539
 Red=Cloning site Green=Tags(s)

MAGKAAAPGTAVLLVTANVGS LFDDPENLQKNW LREFYQVVH THKPHFMALHCQEFGGKNYEASMSHVDK
 FVKELLSSDAMKEYNRARVYLDENYKSQEHFTALGSFYFLHESLKN IYQFDKAKKYR KVAGKEIYSDTL
 ESTPML EKEKFPQDYFPECKWSRKGFI RTRWCIADCAF DLVNIHLFHDASNLVAVETSPSVYSGIRHKAL
 GYVLDRIIDQRFEKVS YFVFGDFNFRLDSKSVVETLCTKATM QTVRAADTNEVVKLIFRES DNDRKVM LQ
 LEKKLFDYFNQEVFRD NNGTALLEFDKELSVFKDRLYELDISFP PPSYPYSEDARQGEQYMNTRCPAWCDR
 ILMSPSAKELVLRSESEEKVVTYDHIGPNVCMGDHKPVFLAFRIMP GAGKPHAHVHKCCVVQ

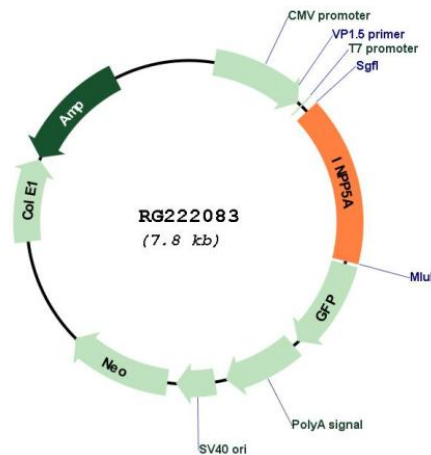
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_005539

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_005539.5
RefSeq Size:	2938 bp
RefSeq ORF:	1239 bp
Locus ID:	3632
UniProt ID:	Q14642
Cytogenetics:	10q26.3
Domains:	IPPC, Exo_endo_phos
Protein Families:	Druggable Genome
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Gene Summary:	The protein encoded by this gene is a membrane-associated type I inositol 1,4,5-trisphosphate (InsP3) 5-phosphatase. InsP3 5-phosphatases hydrolyze Ins(1,4,5)P3, which mobilizes intracellular calcium and acts as a second messenger mediating cell responses to various stimulation. [provided by RefSeq, Jul 2008]