

## Product datasheet for **RG226284**

### **INPP4A (NM\_001134224) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	INPP4A (NM_001134224) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INPP4A
Synonyms:	INPP4; TVAS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG226284 representing NM\_001134224  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACAGCAAGAGAGCACAGCCCTCGCCATGGTGCCAGGCCCCGTGCAATGCAGCGGGCTTCCACCATCG  
 ACGTGGCGGCCGACATGCTGGCCCTCTCTCTGGCAGGAAATATACAAGACCCAGATGAGCCATTTTAGA  
 ATTTAGCTTAGCTTGCACTGAGCTGCATACTCCATCGCTAGATCGAAAGCCAAATAGTTTTGTTGCGGTG  
 AGTGTCAACACCCTCTCAGGCATTCTGGACGAAGCATGCACAGACGGAGATCATTGAGGGAACCAACA  
 ATCCTATATTTCTAAGCAGTATTGCCTTTTCAAGACTCTTTATCAATCAGATGACACAAGTCAAACCT  
 CTCCGTGATGATGTCAAAGATAGATCTCAGGGAACAATGATTTACTGGGCTCTGGAACGTTTATTGTC  
 AAAGATCTGCTCCAGGACAGGCATCATAGGTTGCATTTAACTAAGGTCTGCAGAGAGTGACCGTGTAG  
 GTAACATCACCGTATTGGCTGGCAGATGGAGGAGAAGTCAGACCAACGGCCCCCTGTACCCGGTCTGT  
 GGACACTGTCAATGGGAGGATGGTTCTTCTGTGATGAGAGCTTGACGGAGGCGTTAGGAATCCGATCC  
 AAATACGTTTATTGCGAAAGGACACTTTGCTGAAATCGGTGTTCCGGTGGTGCATCTGCCGCATGTACC  
 GGTTCCAACCACTGATGGTAACCAATTTGCGGATCCTGGAGCAGATGGCAGAGAGCGTGCTCCCTGCA  
 CGTGCCCCGGCAGTTCGTGAAGCTCCTACTAGAGGAAGATGCAGCCAGAGTGTGTGAGCTGGAGGAGCTG  
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 CATACCAGGAGAACCTGACCGACCTCCATCAGTACAGAGGGCCCTCGTTTAAAGCAAGCAGTTTGAAGC  
 AGATAAAAAGTTAGAATTTGTTCCACAAAATTGCACATACAAAGGATGAGAGTTCAAGACGATGGAGGA  
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 GGCCAACTCCATCCATGGGCTGAACGCTGCACGGCCTGACTACATTGCCTCCAAGGCCTCTCCACTTTCG  
 ACTGAGGAGGAGCAGGTGATGCTTAGAAATGACCAGGACACCCTCATGGCCCGTGGACAGGAGAAACA  
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 GACCAGAAGACCCCTTCTGTGATGTCCCTCCTACCATGCCCTCCACCATGCCCTCCACTGCATGCCA  
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 TCAGGCCACTTCCAGCGCCTCCGCAGACATGCTGCCGTCATCACAGAAATCGCGACGGGTTTAAAGTGTG  
 CGGGTCCCTCTGCCGGGCCCGCTGTTTACGCTTGGCCCGGAGATCCAGAGTGGCATGCTGCTGCGAG  
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 AGAACGTGCATGCCCGGAAGAATAAGAAGCTCGACATTCTTGGCAAGCTGCTGAGATCTGCCGCCGCT  
 TAATGGGGTCCGGTTCACCAGCTGCAAGAGCGCTAAGGACCGTACAGCCATGTGGTGACACTGGAGCAG  
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 GTGAGGTTGTGCAAGAGAAAATAAATGAAGAATGTTGGAAGTCGCAAAATATGCATTTAATCCCTGCA  
 GCTGAAGGCTTTCCCAAGCATTACAGGCTCCCGAAGGACTTACGGAAAAGTTGAAACG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG226284 representing NM\_001134224  
Red=Cloning site Green=Tags(s)

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MTAREHSPRHGARARAMQRASTIDVAADMLGLSLAGNIQDPDEPILEFSLACSELHTPSLDRKPNFVAV
SVTTPPQAFWTKHAQTEIEGTNNPIFLSSIAFFQDSLINQMTQVKLSVYDVKDRSQGTMYLKSGTFIV
KDLLQDRHRLHLTLRSAESDRVGNITVIGWQMEEKSDQRPPVTRSVDTVNGRMVLPVDESLEALGIRS
KYASLRKDTLLKSVFVGGAIICRMRYRPTTDGNHLRILEQMAESVLSLHVPRQFVKLLLEEDAARVCELEEL
GELSPCWESLRRQIVTQYQTIILTYQENLTDLHQYRGPSFKASSLKADKKLEFVPTNLHIQRMRVQDDGG
SDQNYDIVITIGAPAAHCQGFKSGGLRKKLHKFEETKKHFEECCTSSGCQSIYIPQDVVRAKEIIAQINT
LKTQVSYAERLSRAAKDRSATGLERTLAAILADKTRQLVTVCDCKLLANSIHGLNAARPDYIASKASPTS
TEEEQVMLRNDQDTLMARWTGRNSRSSLQVDWHEEEWEKVLNVDKSLECIQQRVDKLLQKERLHGEGCE
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YPLLTTLDTCVAMMSDKAKKAMVFLMQDSAPTIAATYLSLQYRRDVVFCQTLTALICGFIKLRNCLHDD
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RVPLPGPLFDALPREIQSGMLLRVQPVLFNVGINEQQTLAERFGDTSLQEVINVESLVRNLSYFEQFKEV
LPEDCLPRRSQTCLPELLRFLGQNVHARKNKNVDILWQAAEICRRLNGVRFTSCKSAKDRTAMSVTLEQ
CLILQHEHGMAPQVFTQALECMRSEGCRRRENTMKNVGSRKYAFNSLQLKAFPKHYRPPPEGTYGKVT
    
```

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

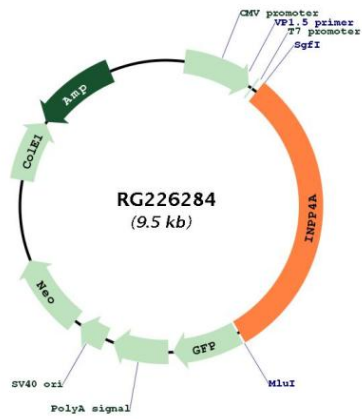


**ACCN:** NM\_001134224

**ORF Size:** 2931 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_001134224.1</a> , <a href="#">NP_001127696.1</a>
<b>RefSeq Size:</b>	6752 bp
<b>RefSeq ORF:</b>	2934 bp
<b>Locus ID:</b>	3631
<b>UniProt ID:</b>	<a href="#">Q96PE3</a>
<b>Cytogenetics:</b>	2q11.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
<b>Gene Summary:</b>	This gene encodes an Mg <sup>++</sup> independent enzyme that hydrolyzes the 4-position phosphate from the inositol ring of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate, and inositol 3,4-bisphosphate. Multiple transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Aug 2008]

Product images:



Circular map for RG226284