

Product datasheet for **RG201367**

PI4K2A (NM_018425) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|-------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | PI4K2A (NM_018425) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | PI4K2A |
| Synonyms: | PI4KII; PIK42A |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG201367 representing NM_018425
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGAGACGAGCCACTAGTGTCCCCGAGCGGGCCAAACCCCGGACTACACCTTCCCGTCGGGCT
 CGGGCGCTCACTTCCGCAGGTGCCCGGGGCGCGGTCCGAGTGGCGGCGCGGCCGCTCGGGCCCTC
 TCCGCCAGGCTCGCCGGGCCACGACCGCGAGCGGAGCCACTGTTGGATCGGGCCCGGGCGCGGGCC
 CAGGGCCAGACCAACCGTGGCGGCGCAGGCCAGGCTCTGGCCGCTCAGGCCGCGGGCAGCCACG
 CCGCTCAGGCCACCGCAGCGGAACGAGTTCGGGAGGATCCTGAGTTCGAGGCGGTGGTGCAGGCG
 CGAGCTGGCCATCGAGCGCTGCATCTTCCGAGCGCATCTACCAGGGCTCCAGCGGAAGCTACTTCGTC
 AAGACCCTCAGGGGAGGATCATTGCTGTCTTCAAACCAAGAATGAAGAGCCCTATGGGCATCTTAATC
 CTAAGTGGACCAAGTGGCTGCAGAAGCTGTGCTGTCTTGGCTGTCTTGGCCGTGACTGCCTTGCTTAA
 CCAGGGCTATCTCTCAGAAGCAGGGGCCAGCCTGGTGGACAAAACTGGAAGCTCAACATTGTTCCCGT
 ACAAAGGTAGTATACCTGGCCAGTGAGACCTTCAACTATAGTGCCATTGACCGAGTGAAGTCCAGGGGCA
 AGCGGCTTGCACTAGAGAAAGTGCCAAAAGTTGGACAGCGGTTTAAACCGCATCGGGCTACCACAAAGT
 TGGTTCATTCCAGCTCTTGTGAAGGCTACAAAGATGCAGACTATTGGCTGCGGCGTTTGAAGCAGAA
 CCTCTTCTGAGAACCTAACCGCAACTACTGCTCCAGTTTGGAGCGGTTGGTGGTGTGGATTACATCA
 TCCGCAACACTGATCGAGGCAATGACAAGTGGCTGATTAATATGACTGTCCAATGGATAGTTCTAGCTC
 TCGGGACACAGACTGGTGGTGGTGAAGGAGCCTGTTATCAAGTGGCTGCCATAGACAATGGGCTGGCC
 TTCCCCTGAAGCATCTGACTCCTGGAGGCGATACCTTTTTACTGGCCTGGTGGCCAGCGGAAAG
 TCCCATTTTCTCAGGAGATCAAAGATCTGATCCTTCAAAGATATCGGACCCTAAGTTCGTCGTCGAGG
 GGAAGAGGACCTATAGAACTTCAAGAAAGATCCTGGTTTCGACAGGGGCCAGTTCATAAGCAGATT
 GCTGTCTGCGGGGCCAGATCTTAAATCTGACCCAGGCTTGAAGACAACAAGAGTCCCTGCACCTCG
 TCCAGATGCCACCTGTGATTGTGCGAGACGGCCGTTCCACCAGCGGCTTCTAGCGAGTCTACACACA
 GAGCTTTCAGAGCCGGAAGCCCTCTTTTCATGGTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201367 representing NM_018425
 Red=Cloning site Green=Tags(s)

MDETSPLVSPERAQPPDYTFPSGSAHFPQVPGGAVRVAAGSGSPSPGPHDRERQPLDRARGAAA
 QGQTQTVAQAQALAAQAAAAAQAHRERNEFPEDPEFEAVVRQAELAIERICIFPERIYQSSGSYFV
 KDPOGRIIAVFKPKNEEPYGHLPKWKWLQKLCPCCFGRDCLVLNQGYLSEAGASLVDQKLELNIVPR
 TKVVYLASETFNYSIDRVKSRGKRLALEKVPKVGQRFNRIGLPPKVGFSFQLFVEGYKDADYWLRRFEAE
 PLPENTNRQLLLQFERLVVLDYIIRNTDRGNDNWLKIDYDCPMDSSSRDWDVVVKEPVIKVAIDNGLA
 FPLKHPDSWRAYPFYWAWLPQAKVPFSQEIKDLILPKISDPNFVKDLEEDLYELFKKDPGFDGQFHKQI
 AVMRGQILNLTQALKDNKSPLHLVQMPPIVETARSHQRSSSESYSYQSFQSRKPFSSW

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_018425

ORF Size: 1437 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_018425.2](#), [NP_060895.1](#)

RefSeq Size: 4185 bp

RefSeq ORF: 1440 bp

Locus ID: 55361

UniProt ID: [Q9BTU6](#)

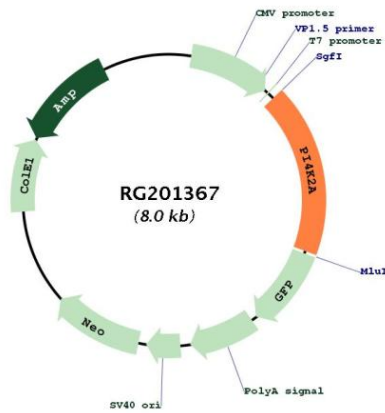
Cytogenetics: 10q24.2

Domains: PI3_PI4_kinase

Protein Families: Druggable Genome

Gene Summary: Phosphatidylinositolpolyphosphates (PtdInsPs) are centrally involved in many biologic processes, ranging from cell growth and organization of the actin cytoskeleton to endo- and exocytosis. PI4KII phosphorylates PtdIns at the D-4 position, an essential step in the biosynthesis of PtdInsPs (Barylko et al., 2001 [PubMed 11244087]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG201367