

Product datasheet for **RG214125**

PIK3AP1 (NM_152309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIK3AP1 (NM_152309) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIK3AP1
Synonyms:	BCAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214125 representing NM_152309
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCCTCAGGGGTGCCAGAGGATGCGACATCCTCATCGTCTACAGCCCGGATGCCGAGGAATGGT
 GCCAGTACCTGCAGACCCGTCTCTGTCCAGTCCGGCAGGTCCGCAGCCAGAAGATACTGACTCACAGGCT
 GGGCCCCGAGGCCTCCTTCTCGGCAGAGGACCTAAGCCTTTTCTCAGCACCCGCTGTGTCTGGTGTCTG
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 CTCGACCCGCGTGGTCAAGGCTGCTGCGGCGTGCAGGACAGCGAGGAGTTCTAGACTTCTTTCCAGA
 TTGGGCCATTGGCAGGAGCTCACCTGTGACGATGAGCCAGAGACCTACGTGGCAGCTGTGAAAAAGCC
 ATTTCCGAAGATTCTGGCTGTGACTCAGTCACTGACACTGAGCCTGAGGACGAGAAGTTGTTTCTACT
 CGAAGCAGCAGAACCCTGCCGACGGTACTTACCTGGAACTGATGGTGGTGCAGCCGGACCGCATTCCG
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 GAGTGGCAGCTCAACCAGAAGAAACGATCGGAGTCTTTTCGTTTCCAGCAGGAAAATCTTAAACGGCTAA
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 GTAGCACAAAGTAAACCGCTCCAGCACCCGGAGCCTCCTCAGTGTGAGCAGCGGGATGGAAGGGGACAACGA
 GGATAATGAAGTCCCTGAGGTTACCAGAAGTCGAGTCCAGGCCCCCAAGTGGATGGGACACCACCC
 ATGTCCCTCGAGAGACCCCGAGGTGCCCTCCGAGAGCTGCCTCACAGAGGCCTCCGACCAGGGAGACCT
 TCCATCCTCCTCACCTGTTCCACCCAGAGGACGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG214125 representing NM_152309
 Red=Cloning site Green=Tags(s)

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MAASGVPRGCDILIVYSPDAEEWCQYLQTLFLSSRQVRSQKILTHRLGPEASFAEDLSLFLSTRCVVVL
LSAELVQHFKPALLPLLQRAFHPHRVRLLCGVRDSEEFDFPDWAHWQELTCDEPETYVAVKKA
ISEDGCDSVTDTEPEDEKVVSYSKQNLPTVTSPGNLMVVQPDRIRCGAETTVYVIVRCKLDDRVATEA
EFSPEDSPSVRMEAKVENEYTI SVKAPNLSSGNVSLKIYSGDLVVCETVISYYTDMEEIGNLLSNAANPV
EFMCQAFKIVPYNTETLDKLLTESLKNNIPASGLHLFGINQLEEDMMTNQRDEELPTLLHFAAKYGLKN
LTALLLTCPGALQAYSVANKHGHYPNTIAEKHGFRDLRQFIDEYVETVDMLKSHIKEELMHGEEADAVYE
SMAHLSTDLLMKCSLNPGCDEDLYESMAAFVPAATEDLYVEMLQASTSNPIP GDGFSRATKDSMIRK FLE
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KSQERPGNFYVSSSESIRKGGPPVRPWRDRPQSSIIYDPFAGMKTGQQRQLITLQEQVKLGIVNVDEAVLHFK
EWQLNQKKRSESRFRQQENLKRLRDSITRRQREKQKSGKQTDLEITVPIRHSQHLPAKVEFGVYESGPRK
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MSLERPPRVPPRAASQRPPPTRETFHPPPPVPPRGR
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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_152309.3](#)

RefSeq Size: 4817 bp

RefSeq ORF: 2418 bp

Locus ID: 118788

UniProt ID: [Q6ZUJ8](#)

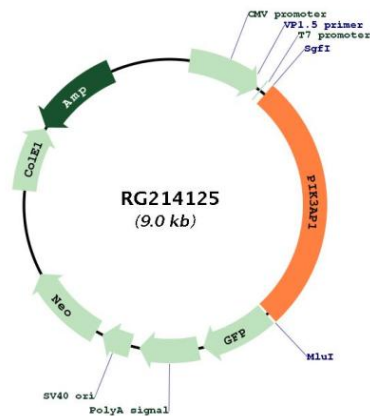
Cytogenetics: 10q24.1

Protein Families: Druggable Genome

Protein Pathways: B cell receptor signaling pathway

Gene Summary: Signaling adapter that contributes to B-cell development by linking B-cell receptor (BCR) signaling to the phosphoinositide 3-kinase (PI3K)-Akt signaling pathway. Has a complementary role to the BCR coreceptor CD19, coupling BCR and PI3K activation by providing a docking site for the PI3K subunit PIK3R1. Alternatively, links Toll-like receptor (TLR) signaling to PI3K activation, a process preventing excessive inflammatory cytokine production. Also involved in the activation of PI3K in natural killer cells. May be involved in the survival of mature B-cells via activation of REL.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214125