

Product datasheet for **RC234761**

KIFAP3 (NM_001204514) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIFAP3 (NM_001204514) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIFAP3
Synonyms:	dj190116.1; FLA3; KAP-1; KAP-3; KAP3; SMAP; Smg-GDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234761 representing NM_001204514
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGATTGCCCTTGGCAACACTTACCGGAGAAGTCTTTCAGATTCAGAAACTGTTTCTGTACTCCAAG
 CAAGCTTATGTGAAGAGAAAAAAGAAAAATCAAGCAAGCCTAAAGATCCACCTCCTTTTGAAGGAATGGA
 GATTGATGAAGTTGCTAACATTAATGACATGGATGAATATATTGAGTTATTATATGAAGATATTCCTGAC
 AAAGTTCGGGGTTCTGCTTTGATCCTGCAGCTTCTCGAAATCCTGATAACTTGAAGAAGTACTATTGA
 ATGAAACTGCCCTTGGTGCATTAGCAAGGGTCTGAGAGAAGACTGGAAGCAAAGTGTGAGTTAGCTAC
 AAACATAATTTACATCTTTTTTTGTTTCTCCAGCTTTTCTCAATTTTCATGGACTTATTACTACTATAAA
 ATTGGAGCTCTGTGATGAATATTATTGATCATGAGTTAAAAAGACATGAGCTTTGGCAAGAAGAACTCT
 CAAAGAAGAAGAAAGCTGTTGATGAAGACCCTGAAAACCAAACCTTGAGAAAGGATTATGAAAAACCTT
 TAAAAAGTACCAGGGCTTGTGGTAAACAGGAACAGCTATTACGAGTTGCTCTTATTTGCTTCTGAAT
 CTTGCTGAGGATACTCGTACCGAACTGAAAATGAGGAACAAGAACATAGTTCACATGTTGGTGAAGGCC
 TTGATCGGGACAATTTTGAAGCTGCTAATTTTAGTTGTGTCATTCTTGAAGAACTCAGCATTTTTATGGA
 GAATAAAATGATATGGTGGAAATGGATATTGTTGAAAACTGGTGAATAATGATACCTTGTGAGCATGAA
 GACCTGCTGAATATCACCTCCGACTTTTACTAAACCTATCCTTTGACACAGGACTGAGGAATAAGATGG
 TACAAGTTGGACTGCTTCCCAAGCTCACTGCACCTAGGCAATGACAACATAAACAATAGCAATGTG
 TGTTCTTACCACATAAGCATGGATGACCGCTTAAATCAATGTTTGCATACACTGACTGTATACCACAG
 TTAATGAAGATGCTGTTGAATGTTGATGACGAATGACTTGAAGTCAATTTCTTTCGATTAATC
 TTGCTGCTAACAAAAGAAATGTACAGCTTATCTGTGAAGGAAATGGGCTGAAGATGCTCATGAAGGGGC
 TCTGAAGTTTAAAGGATCCATTGCTGATGAAAATGATTAGAAACATTTCTCAGCATGATGGACCAACTAAA
 AATCTGTTTATTGATTATGTTGGGGACCTTGCAGCCAGATCTCTAATGATGAAGAAGAGGAGTTTGTGA
 TTGAATGTTTGGGAACTTTGCAAACCTTGACCATTCCAGACTTAGACTGGGAATTGGTTCTTAAAGAATA
 TAAGTTGGTTCCATACCTCAAGGATAAACTAAAACAGGTGCTGCAGAAGATGATCTTGTTTTGAAGTG
 GTTATAATGATTGGAAGTGTATCCATGGATGACTCTTGTGCTGCATTGCTAGCCAAATCTGGCATAATCC
 CTGCACTCATTGAATTGCTAAATGCTCAACAAGAAGATGATGAATTTGTGTGTCAGATAATTTATGTCTT
 CTACCAGATGGTTTTCCACCAAGCCACAAGAGACGTCATAATCAAGGAAACACAGGCTCCAGCATATCTC
 ATAGACCTAATGCATGATAAGAATAATGAAATCCGAAAGGTCTGTGATAATACATTAGATATTATAGCGG
 AATATGATGAAGAATGGGCTAAGAAAATTCAGAGTGAAAAGTTTCGCTGGCATAACTCTCAGTGGCTGGA
 GATGGTAGAGAGTCGTCAGATGGATGAGAGTGAGCAGTACTTGTATGGTGTGATGATCGAATTGAGCCATAC
 ATTCATGAAGGAGATTTCTCGAAAGACCTGACCTTTTCTACAACCTCAGATGGATTAATTGCCTCTGAAG
 GAGCCATAAGTCCCGATTTCTTCAATGATTACCACCTTCAAAATGGAGATGTTGTTGGGCAGCATTCTT
 TCCTGGCAGCCTTGAATGGATGGCTTTGGCAACCAAGTTGGCATTCTTGGACGCCCTGCCACAGCATAT
 GGATTCGGCCCTGATGAACCTTACTACTATGGCTATGGATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234761 representing NM_001204514
 Red=Cloning site Green=Tags(s)

MSIALGNTYRRSLSDSETVSVLQASLCEEKKEKSSKPKDPPPFEGMEIDEVANINDMDEYIELLYEDIPD
 KVRGSALILQLARNPDNLEELLNETALGALARVLREDWKQSVELATNIIYIFFCFSSFSQFHGLITHYK
 IGALCMNIIDHELKRHELWQEELSKKKKAVDEDPENQTLRKDYEKTFKKYQGLVVKQEQLLRVALYLLN
 LAEDTRTELKMRNKNIVHMLVKALDRDNFELLILVVSFLKKLIFMENKNDMVEMDIVEKLVKMIPCEHE
 DLLNITLRLLLNLSFDTLRNMVQVGLLPKLTALLGNDNYKQIAMCVLYHISMDDRFKSMFAYTDCIPQ
 LMKMLFECSDERIDLELISFCINLAANKRNVQLICEGNLKMMLMKRALKFKDPLLMKMRNISQHDGPTK
 NLFIDYVGDAAQISNDEEEEFVIECLGTLANLTIPDLWELVLKEYKLVPLYKDKLKPGAEDDLVLEV
 VIMIGTVSMDDSCAALLAKSGIIPALIELLNAQQEDDEFVCQIIYVFYQMVFHQATRDVIKETQAPAYL
 IDLMHDKNNEIRKVDNTLDIIAEYDEEWAKKIQSEKFRWHNSQWLEMVESRQMDSEQYLYGDDRIEPIY
 IHEGDILERPDLFYNSDGLIASEGAI SPDF FNDYHLQNGDVVGQHSFPGSLGMDGFGQPVGILGRPATAY
 GFRPDEPYYYGYGS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001204514

ORF Size: 2142 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: [NM_001204514.1](#), [NP_001191443.1](#)

RefSeq Size: 3175 bp

RefSeq ORF: 2145 bp

Locus ID: 22920

UniProt ID: [Q92845](#)

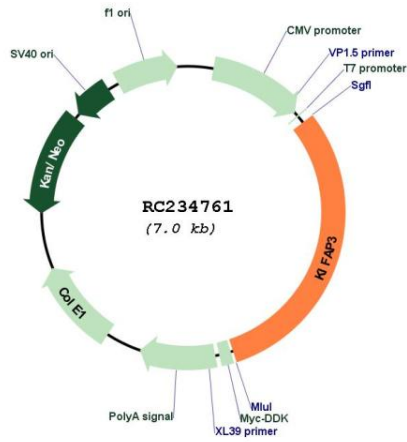
Cytogenetics: 1q24.2

Protein Families: Druggable Genome

MW: 82.6 kDa

Gene Summary: The small G protein GDP dissociation stimulator (smg GDS) is a regulator protein having two activities on a group of small G proteins including the Rho and Rap1 family members and Ki-Ras; one is to stimulate their GDP/GTP exchange reactions, and the other is to inhibit their interactions with membranes. The protein encoded by this gene contains 9 'Armadillo' repeats and interacts with the smg GDS protein through these repeats. This protein, which is highly concentrated around the endoplasmic reticulum, is phosphorylated by v-src, and this phosphorylation reduces the affinity of the protein for smg GDS. It is thought that this protein serves as a linker between human chromosome-associated polypeptide (HCAP) and KIF3A/B, a kinesin superfamily protein in the nucleus, and that it plays a role in the interaction of chromosomes with an ATPase motor protein. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC234761