

## Product datasheet for **SC331599**

### **KIFAP3 (NM\_001204516) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KIFAP3 (NM_001204516) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIFAP3
Synonyms:	dj190116.1; FLA3; KAP-1; KAP-3; KAP3; SMAP; Smg-GDS
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC331599 representing NM\_001204516.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCAAGGGGAGGACGCCAGATACCTCAAAGCATTGACTTAAGAGTCTCAATGCCAACACAGATATA
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AGTCCCGATTTCTCAATGATTACCACCTTCAAATGGAGATGTTGTTGGGCAGCATTCAATTTCTGGC
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CGCCCTGATGAACCTTACTACTATGGCTATGGATCTGA
  
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001204516

**Insert Size:** 2247 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001204516.1](#)

**RefSeq Size:** 2879 bp

**RefSeq ORF:** 2247 bp

**Locus ID:** 22920

**UniProt ID:** [Q92845](#)

**Cytogenetics:** 1q24.2

**Protein Families:** Druggable Genome

**MW:** 86.3 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]

Transcript Variant: This variant (3) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (3) has the same N- and C-termini but is shorter compared to isoform 1.