

Product datasheet for RC221158

AKAP9 (NM_005751) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP9 (NM_005751) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP9
Synonyms:	AKAP-9; AKAP350; AKAP450; CG-NAP; HYPERION; LQT11; MU-RMS-40.16A; PPP1R45; PRKA9; YOTIAO
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC221158 representing NM_005751 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

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>RC221158 representing NM_005751
Red=Cloning site Green=Tags(s)
    
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 FRKAL IYQKKYLLLLGGFQECEDATLALLARMGGQPAFTDLEVITNRPKGFTRFRSAVRVSIASRMKF
 LVRRWHRVTGSVININRDGFLNQGAEKTD SFYHSSGGLELYGEPHRTTYRSRSDLDYIRSPLPFQNR

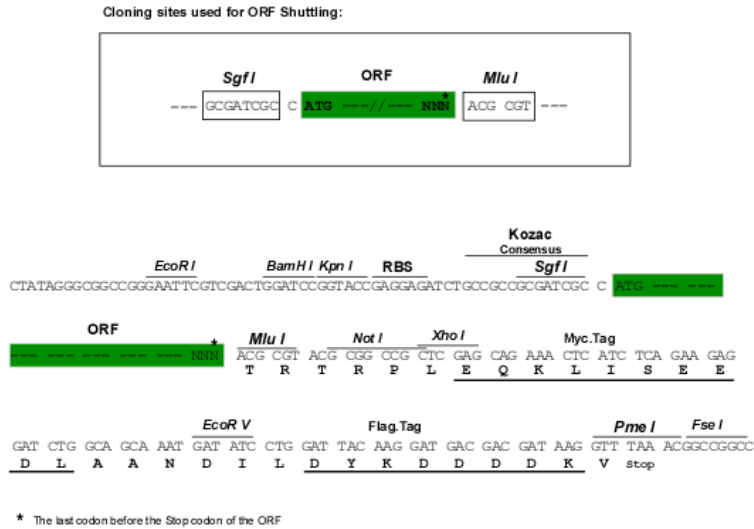
PGTPADFNPGSLACSQLQNYDPDRALTDYITRLEALQRRLLGTIQSGSTTQFHAGMRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

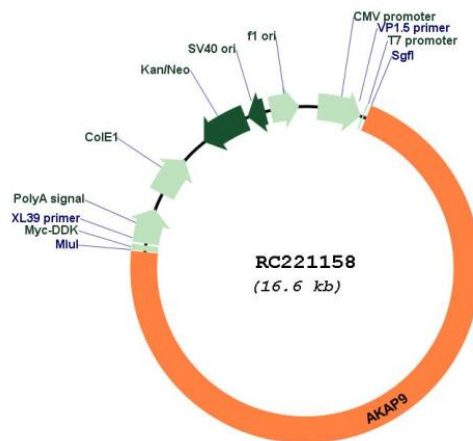
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_005751

ORF Size:

11721 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_005751.5](#)

RefSeq Size: 12463 bp

RefSeq ORF: 11724 bp

Locus ID: 10142

UniProt ID: [Q99996](#)

Cytogenetics: 7q21.2

Protein Families: Druggable Genome

MW: 452.99 kDa

Gene Summary:

The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. Alternate splicing of this gene results in at least two isoforms that localize to the centrosome and the Golgi apparatus, and interact with numerous signaling proteins from multiple signal transduction pathways. These signaling proteins include type II protein kinase A, serine/threonine kinase protein kinase N, protein phosphatase 1, protein phosphatase 2a, protein kinase C-epsilon and phosphodiesterase 4D3. [provided by RefSeq, Aug 2008]