

Product datasheet for **RC213040**

AKAP7 (NM_004842) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AKAP7 (NM_004842) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: AKAP7
Synonyms: AKAP15; AKAP18
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC213040 representing NM_004842
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCAGCTTTGCTGCTTTCTTTCTCAAGAGATGAAGGAAAAATCAGTGAAAAGAACGGAGGGGAGC
CCGATGACGCTGAACTAGTAAGGCTCAGTAAGAGGCTGGTGGAGAACGCGGTGCTCAAGGCTGTCCAGCA
GTATCTGGAGGAAACACAGAATAAAAACAAGCCGGGGGAGGGAGCTCTGTGAAAACCGAAGCAGCTGAT
CAGAATGGCAATGACAATGAGAACAACAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213040 representing NM_004842
Red=Cloning site Green=Tags(s)
MGQLCCFPFSRDEGKISEKNGGEPDDAELVRLSKRLVENAVLKAVQQYLEETQNKPKPEGSSVKTEAAD
QNGNDNENNRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6475_a02.zip

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_004842

ORF Size: 243 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_004842.4](#)

RefSeq Size: 2279 bp

RefSeq ORF: 246 bp

Locus ID: 9465

UniProt ID: [O43687](#)

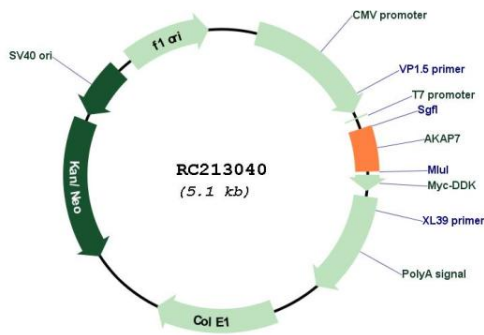
Cytogenetics: 6q23.2

Protein Families: Druggable Genome

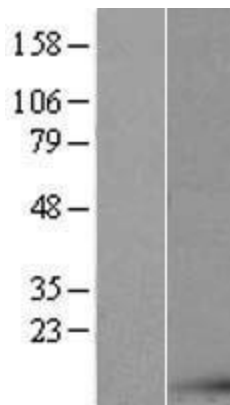
MW: 8.8 kDa

Gene Summary: This gene encodes a member of the A-kinase anchoring protein (AKAP) family, a group of functionally related proteins that bind to a regulatory subunit (RII) of cAMP-dependent protein kinase A (PKA) and target the enzyme to specific subcellular compartments. AKAPs have a common RII-binding domain, but contain different targeting motifs responsible for directing PKA to distinct intracellular locations. Three alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Apr 2011]

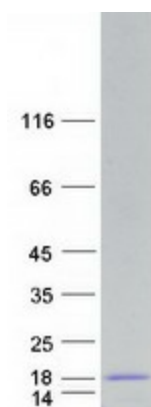
Product images:



Circular map for RC213040



Western blot validation of overexpression lysate (Cat# [LY417708]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213040 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AKAP7 protein (Cat# [TP313040]). The protein was produced from HEK293T cells transfected with AKAP7 cDNA clone (Cat# RC213040) using MegaTran 2.0 (Cat# [TT210002]).