

## Product datasheet for **RC212204**

### **AKAP14 (NM\_001008535) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AKAP14 (NM\_001008535) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** AKAP14  
**Synonyms:** AKAP28; PRKA14  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC212204 representing NM\_001008535  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGTGAGACTCAAATTCACAAGCCAGAAAGCAATGGATGAGGATAACAAAGCCGAAGCCAAACAA  
TGCCGAATACACAAGACAAGAAGTACGAGGATGAATTGACTCAAGTAGCTCTAGCTCTGGTTGAGGATGT  
CATCAATTATGCTGTTAAGATTGTGGAAGAGGAGCGAAACCCCTTGAAAAACATCAAGTGGATGACTCAC  
GGTGAATCACTGTGAAAAGGGTCTTAACAAATTGACGAATATTTTTCGGTAAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC212204 representing NM\_001008535  
Red=Cloning site Green=Tags(s)

MSETQNSTSQKAMDEDNKAASQTMPNTQDKNYEDEL TQVALALVEDVINYAVKIVEEERNPLKNIKWMTH  
GEFTVEKGLKQIDEYFSVS

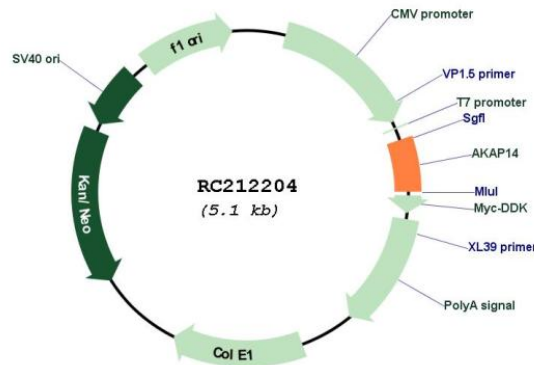
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001008535

ORF Size: 267 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001008535.2</a>
<b>RefSeq Size:</b>	481 bp
<b>RefSeq ORF:</b>	270 bp
<b>Locus ID:</b>	158798
<b>UniProt ID:</b>	<a href="#">Q86UN6</a>
<b>Cytogenetics:</b>	Xq24
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	10 kDa
<b>Gene Summary:</b>	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. The protein anchors PKA in ciliary axonemes and, in this way, may play a role in regulating ciliary beat frequency. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]