

Product datasheet for **RG209895**

AKAP14 (NM_178813) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AKAP14 (NM_178813) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AKAP14
Synonyms: AKAP28; PRKA14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209895 representing NM_178813
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAGACTCAAATTCACAAGCCAGAAAGCAATGGATGAGGATAACAAAGCCGCAAGCCAAACAA
TGCCGAATACACAAGACAAGAAGCTACGAGGATGAATTGACTCAAGTAGCTCTAGCTCTGGTTGAGGATGT
CATCAATTATGCTGTTAAGATTGTGGAAGAGGAGCGAAACCCCTTGAAAAACATCAAGTGGATGACTCAC
GGTGAATTCAGTGTGAAAAGGGTCTTAAACAAATTGACGAATATTTTTCGAAGTGTGTTCTAAAAAAT
GCTGGGCACATGGCGTAGAGTTTGTAGAGAGGAAAGACTTAATTCACAGCTTCTCTACATCTACTATGT
ACACTGGAGTATCTCAACTGCTGACCTACCCGTAGCACGAATCTCTGCTGGTACCTACTTACCATGAAG
GTCTCCAAAACCAACCACCGGATGCACCCATTGTTGTTTCTTATGTAGGTGACCACCAAGCATTAGTTC
ACAGACCAGGAATGGTTCGCTTTTCGAGAAAAGTGGCAGAAGAATCTTACTGATGCCAAATATAGTTTCAT
GGAGTCATTCCCCTTCTTATTCAATCGTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209895 representing NM_178813
Red=Cloning site Green=Tags(s)

MSETQNSTSQKAMDEDNKAASQTMPNTQDKNYEDELQVALALVEDVINYAVKIVEEERNPLKNIKWMTH
GEFTVKEGLKQIDEYFSKCVSKKWAHGVFVERKDLIHSFLYIYVHWSISTADLPVARISAGTYFTMK
VSKTKPPDAPIVVSYVGDHQUALVHRPGMVRFRFNWQKNLTDKYSFMESFPFLFNRV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_178813

ORF Size: 591 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_178813.6](#)

RefSeq Size: 855 bp

RefSeq ORF: 594 bp

Locus ID: 158798

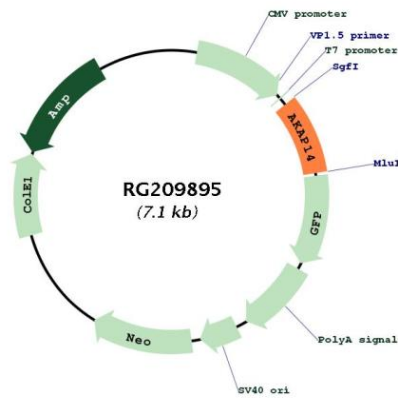
UniProt ID: [Q86UN6](#)

Cytogenetics: Xq24

Protein Families: Druggable Genome

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. 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]

Product images:



Circular map for RG209895