

Product datasheet for **RG202174**

AKAP10 (NM_007202) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP10 (NM_007202) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AKAP10
Synonyms:	AKAP-10; D-AKAP-2; D-AKAP2; PRKA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG202174 representing NM_007202
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGGAGCCGGCCCTCCCCGCCAGTCCCCCGCACCCCTCCGTCGACCCGGGCCCCGCCATGT
CCTTCTCCGGCGGAAAGTGAAAGGCAAAGAACAAGAGAAGACCTCAGATGTGAAGTCCATTAAAGCTTC
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GACCAATCAAGCCTTTCTAAGACCCTTGAACAAGTCTTGACGACACTATTGCCTCCCTTACTTCATT
CAATTCATGGAACCTCGCGAATGGAGCATTGGTGAAATTTGGTTAGAGGCTGAAAGTTTTTCATTCAA
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TCACCAAGTTTCCATGGAACCCAAGAATCTTCTCTACACTTACAGTAGCCAGTAGAAATAGTCCCCT
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TTTTTGCCTGGCTTTTGTCCAGCAATCTTTATTATAAATATTTGAATGATCTCATCCATTCGGTTCGAG
GAGATGAATTTCTGGCGGGAACGTGTCGCTGACTGCTCCTGGCTCTGTTGGCCCTCTGATGAGTCTCA
CCCAGGGAGTTCTGACAGCTCTGCGTCTCAGTCCAGTGTGAAAAAGCCAGTATTTAAATACTGAAAAAT
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CAGGAAGAGCTAGCTTGGGAAGATTGCTAAAATGATAGTCAGTGACATTATGCAGCAGGCTCAGTATGATC
AACCGTTAGAGAAATCTACAAAGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202174 representing NM_007202
 Red=Cloning site Green=Tags(s)

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MRGAGPSRPQSPRTLRPDPGPAMSFRRKVKGKEQEKTSVKSISVHSPQKSTKNHALLEAAGPSH
VAINAISANMDSFSSSRATLKKQPSHMEAAHFGLGRSCLDYQTQETKSSLSKTLEQVLHDTIVLPYFI
QFMELRRMEHLVKFWLEAESFHSTTWSRIRAHSLNTVKQSSLAEPVSPSKKHETTASFLTDSLDRLEDS
GSAQLFMTHSEGIDLNNRTNSTQNHLLLSQECDSAHSLRLEMARAGTHQVSMETQESSSTLTVASRNSPA
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MEQEHFSEFLRSHHFCKYQIEVL TSGTVYLADILFCESALFYFSEYMEKEDAVNILQFWLAADNFQSQLA
AKKGQYDGGQEAQN DAMILYDKYFSLQATHPLGFDDVVRLEIESNICREGGPLPNCFTTPLRQAWTTMEKV
FLPGFLSSNLYYKYLNDLIHSVRGDEFLLGGNVSLTAPGSVGPDPESHGSSDSSASQSSVKKASIKILKN
FDEAIIVDAASLDPESLYQRTYAGKMTFGRVSDLGQFIRESEPEPDRKSKGSMFSQAMKKWVQNGTDEA
QEELAWKIAKMI VSDIMQQAQYDQPLEKSTKL
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007202

ORF Size: 1986 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_007202.4](#)

RefSeq Size: 2929 bp

RefSeq ORF: 1989 bp

Locus ID: 11216

UniProt ID: [O43572](#)

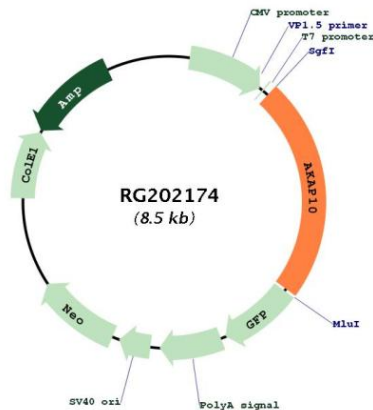
Cytogenetics: 17p11.2

Domains: RGS

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the A-kinase anchor protein family. A-kinase anchor proteins bind to the regulatory subunits of protein kinase A (PKA) and confine the holoenzyme to discrete locations within the cell. The encoded protein is localized to mitochondria and interacts with both the type I and type II regulatory subunits of PKA. Polymorphisms in this gene may be associated with increased risk of arrhythmias and sudden cardiac death. [provided by RefSeq, May 2012]

Product images:



Circular map for RG202174