

## Product datasheet for **SC301316**

### AKAP14 (NM\_001008534) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP14 (NM_001008534) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKAP14
Synonyms:	AKAP28; PRKA14
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001008534, the custom clone sequence may differ by one or more nucleotides ATGAGTGAGACTCAAAATTCACAAGCCAGAAAGCAATGGATGAGGATAACAAAGCCGCA AGCCAAACAATGCCGAATACACAAGACAAGAACTACGAGGATGAATTGACTCAAGTAGCT CTAGCTCTGGTTGAGGATGTCATCAATTATGCTGTTAAGATTGTGGAAGAGGAGCGAAAC CCTTTGAAAAACATCAAGTGGATGACTCACGGTGAATTCCTGTGAAAAGGGTCTTAA CAAATTGACGAATATTTTCGGATGCACCCATTGTTGTTCTTATGTAGGTGACCACCAA GCATTAGTTCACAGACCAGGAATGGTTCGCTTTCGAGAAAAGTGGCAGAGAATCTTACT GATGCCAAATATAGTTTCATGGAGTCATTCCCCTTCTTATCAATCGTGTCTGA
Restriction Sites:	Please inquire
ACCN:	NM_001008534
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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<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>	<u>NM_001008534.1, NP_001008534.1</u>
<b>RefSeq Size:</b>	675 bp
<b>RefSeq ORF:</b>	414 bp
<b>Locus ID:</b>	158798
<b>UniProt ID:</b>	<u>Q86UN6</u>
<b>Cytogenetics:</b>	Xq24
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform b).</p>