

## Product datasheet for **SC331924**

### **AKAP1 (NM\_001242903) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AKAP1 (NM_001242903) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKAP1
Synonyms:	AKAP; AKAP84; AKAP121; AKAP149; D-AKAP1; PPP1R43; PRKA1; SAKAP84; TDRD17
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC331924 representing NM\_001242903.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCAATCCAGTTCGGTTCGCTCTTCCCCTTGGCATTGCCTGGGATGCTGGCGCTCCTCGGCTGGTGG
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001242903  
**Insert Size:** 2712 bp

<b>OTI Disclaimer:</b>	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).
<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_001242903.1</a>
<b>RefSeq Size:</b>	4321 bp
<b>RefSeq ORF:</b>	2712 bp
<b>Locus ID:</b>	8165
<b>UniProt ID:</b>	<a href="#">Q92667</a>
<b>Cytogenetics:</b>	17q22
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	97.3 kDa
<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 encoded protein binds to type I and type II regulatory subunits of PKA and anchors them to the mitochondrion. This protein is speculated to be involved in the cAMP-dependent signal transduction pathway and in directing RNA to a specific cellular compartment. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) differs in the 5'UTR compared to variant 1. Variants 1, 2, and 3 encode the same protein.</p>