

## Product datasheet for **SC110061**

### AKAP7 (NM\_138633) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP7 (NM_138633) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKAP7
Synonyms:	AKAP15; AKAP18
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138633, the custom clone sequence may differ by one or more nucleotides

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ATGGGCCAGCTTTGCTGCTTTCTTTCTCAAGAGATGAAGGAAAAATCAGTGAGTTGAAAAGCTCGTCCT
CTGCAGTCCTACAGAGATACAGCAAGGATATACCCAGTTGGTCAAGTGGTAAAAGAACGGAGGGGAGCC
CGATGACGCTGAACTAGTAAGGCTCAGTAAGAGGCTGGTGGAGAACGCGGTGCTCAAGGCTGTCCAGCAG
TATCTGGAGGAAACACAGAATAAAAACAAGCCGGGGGAGGGGAGCTCTGTAAAACCGAAGCAGCTGATC
AGAATGGCAATGACAATGAGAACAACAGGAAATGA
```



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_138633 unedited            ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGAGAAAAGGGCTCATTGTGG            TTTTTCTCGACTACCTTTCTTAAAGACATATGCAATAGCCAGACAGAACACATGGCACT            GACCTATGGCCAGGGACTCACAGTTTTGTGAGAATACGGGAGCGTATAGCCACTTCCTTC            ACTGAATGCCAGTCCCAGAGCAGTTGCATTAGGCTGGAGGACTGGAGGTGGAGCCTTTTT            TGCTCACGGCAGCAAGTCCCTTCTCCTTTCTCCTCCCGGGCGGCGTGTGCATTGGCTCT            TCAAGCTGCCTGTGCTGCTCCGTGGAGTGAAAAAGGCAGGGTGTGCTCGCAGACTGTGCT            ATAAACTGCAATTTCTATTTGGGGTCTCACGGAGAAGAACCAGGAAAGACAGACAGG            ACCAGTGCCATGGGCCAGCTTTGCTGCTTTCTTTCTCAAGAGATGAAGGAAAAATCAGT            GAAAAGAACGGAGGGGAGCCGATGACGCTGAACTAGTAAGGCTCAGTAAGAGGCTGGTG            GAGAACCGGGTGTCAAGGCTGTCCAGCAGTATCTGGAGGAAACAGAAATAAAAACAAG            CCGGGGGAGGGAGCTCTGTGAAAACCGAAGCAGCTGATCAGAATGGCAATGACAATGAG            AACACAGGAAATGGAGCCGGACGCANNGCCCCATGTCTCTGTGCAAAGCCTCCCTGCT            TCCCTCTGCTGAGTCTAGGGACTGACCTGCAGCGTGTGNTTAGTTAAGTTTCTCTGGTG            CAATCGTGAAGATTGCTAATACTTTCATGATCGATGGGTGCGATTGCTGAACACACAGAG            AAAAGGNATGCTGGGACTGCANAGGAATTAATTGTGAAGAGAATGNNCCAGTTTCATCGCC            TCACCACCCAGGAAAGGAACTTTGGTATGCCTC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_138633 unedited            CCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAAGGGAAAACAATATGTT            TATTAAGAGCCATGAAAATGCATAAACTCATTTGTAATAAATGTAGTATAATTTACCCA            GTGAAAAAATAGCTAAAAATCCATGAGTAACTGGATTTTATATTTGAAATGATTTACAT            ATTTGATCTCCAGTGATTTCCCTCCATCATGATCTACTCCATCAATGACTATAGAAAAA            GTTGTTACCAACAATCATCATACCGGGGAAGTTTTCAAGATGCTCTTTCAAACAGAAGC            AGTGCAACAAGTTCAGATGGCAAGGGATACGATAAGACCTGGAGCTTATCTTCGGACAC            GTAAAAAATAAAAATCCCAACATGTATTCCTTAAAGAAATGAAAAAGCAGAACACATTT            TGATCAGTGAAAAATATTATAAGGATATATAAACATTCTTAACCAAGTATCGCAATAAT            TACATTTATAAATGTTTCATTCAAGTACTATTGTTCAATAAACATTCAAATTCATTAAA            AGTAACACTAGATGTAGACACACCTGGACAACGCTTCTTTTGATTTAGCAACAATTGTGT            CAACAGGAGGCAAGTGACCCCTTAAATACTGTTGTTGGCTCTGTTTTATTCTGTTGTGAA            TGATTTGTTACAGTCTGTATGTTTTTTCTGCAAGGACCCGAGAAATATCTCACAAACAG            CTAATTAAGAAATCATTTCTATAAAAATACCTCTCAATATTACAGAAACAGATATTCTAAA            CCACAGTGTAGCTCAAAAATTATTGGGCACGATCCAATTTTCTTGAAGAAATTGCTAA            TTCCTCCCAAATGTTGGTTTGTGTTGGGCCGACACTATCAAACTCTCTGGCGTTACC            CAAAAGCTCCTCATAAGCTGAAAGATTCTAACCTTGTGCCCCATCGCCATGTCACCT            ATGTCA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_138633
<b>Insert Size:</b>	2750 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).

**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\\_138633.1](#), [NP\\_619539.1](#)

**RefSeq Size:** 2348 bp

**RefSeq ORF:** 315 bp

**Locus ID:** 9465

**UniProt ID:** [O43687](#)

**Cytogenetics:** 6q23.2

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the A-kinase anchoring protein (AKAP) family, a group of functionally related proteins that bind to a regulatory subunit (RII) of cAMP-dependent protein kinase A (PKA) and target the enzyme to specific subcellular compartments. AKAPs have a common RII-binding domain, but contain different targeting motifs responsible for directing PKA to distinct intracellular locations. Three alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Apr 2011]  
Transcript Variant: This variant (beta) uses an alternate in-frame exon, compared to variant alpha. The encoded isoform (beta) is longer than isoform alpha.