

Product datasheet for **SC312968**

AKAP7 (NM_016377) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP7 (NM_016377) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKAP7
Synonyms:	AKAP15; AKAP18
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_016377 edited
 CCGCCACCCGCGTCCGCCAGCCAGACGCGCCGCCGCATGCGCCGCGACCATGGAGC
 GCCCCGAAGCGGGAGGAATTAATCCAATGAGTGTGAAAATGTATCAAGAAAAAGAAAA
 TGTCAGAGGAATTTGAAGCCAATACTATGGATTCTCTGGTAGACATGCCATTTGCTACTG
 TAGATATTCAGGATGACTGTGGAATCACTGATGAACCTCAAATAAATTTGAAGAGAAGTC
 AAGAAAAATGAATGGGTCAAGAGTGATCAAGTAAAGAAGAGGAAAAAAGAGAAAAAGATT
 ATCAACCCAACTATTTCCCTGCTCCATCACAACAAGAGATTATAAAAGGAATTA
 AGATCCTGCAGAATGAATAATAACAACAAGATGAGCGACTGGCCAAAGCAATGGTCAGTG
 ATGGTTCCCTTTCATATTACCCTGCTGGTATGCAATTATTAATGAAGATGAAGTAAACA
 TTGGTATTGATGCTCTTTTGAATTGAAACCATTATAGAAAGAACTCCTCCAGGGAAAAAC
 ATTTGACTTTGCCCTTCAAGGGATTGGTACTTTTGGAAATCAGGTTGGATTTGTGAAGC
 TGGCAGAAGGAGATCATGAACTCACTTTTGGAGATAGCAGAGACTGCAATAGGACAT
 TTCAAGAAAAAGGCATCCTGGTAGGAGAGAGCAGAAGTTTTAAACCTCATTTGACCTTCA
 TGAAGTTGTCAAATCACCGTGGCTCCGTAAGAATGGAGTAAAAAATAGATCCTGATT
 TATATGAAAAGTTTATCAGTCACAGATTTGGAGAAGAAATATTATATCGCATAGATCTTT
 GCTCCATGCTGAAGAAAAACAAAGTAATGGTTATTACTGTGAATCTTCCATTGTGA
 TTGGTGAAAAGAACGGAGGGGAGCCGATGACGCTGAACTAGTAAGGCTCAGTAAGAGGC
 TGGTGGAGAACCGGTGCTCAAGGCTGTCCAGCAGTATCTGGAGGAAACACAGAATAAAA
 ACAAGCCGGGGAGGGGAGCTCTGTGAAAACCGAAGCAGCTGATCAGAATGGCAATGACA
 ATGAGAACAACAGGAAATGAGCCCGAAGCAGGCCCCCATGTCTCTGTGCAAAGCCTCC
 CTGCTTCCCTCTGCTGAGTCTAGGGACTGACTTGCAGCGTGTGTTAAGTTAAGTTTCT
 CTGGTGAATCTGTGAAGATTGCCTAATACTTTTTCATGATCGATGTGTTTCGATTGCTGA
 AACACAACAAGAAAAATGGAGTGTGGGACTGCGAGAGGAAATTAATTGATGAAAGAA
 GAATGGCCCAAGTTTCATTCGCCCTCAGCCACGCACAAGGGAAAGGAACTTTGGGTTAT
 GCCTCCTGGACGCAAATTAAGGCCGAGAAAGAGGCCCTTGCCATCAATGGAATACTGCCA
 TTTATATTGCTTAGCAGGGCATTGACTACTTTTCTGAGGCCAGAACTCTCACACACAG
 CTATCAAGTGCTAAGTTTAAAAAATCACTGTTGGAATTGTCTATGTACAATTAGTCCA
 TAATGTTTCATGTTTGCCTAAGTGTGCTGTTGCTATGCAGTGTGATCTTTATTTATAGT
 AAATTATGTTTCATGTAATGATATATTTTTGGTGAATGCAACCTTTTCTATAAAATGT
 GGGCAACATTTTAAAGTTTTTTTTAAAATCCTATTTTGATAAGTCAGTATGCCATATTTAA
 TGAATGTTATTATATAATTTTTTTTCTTAGGCAAGAAACCTATTGGAATTCGAGACTT
 AATTAATGAAGCTTTGCATCGAGAAACGATGGGTCTGAAGTCCAAAGTGAACAGATAAA
 GGAACTTTTATTAAGCCTGAGACTCAGGCCAGAATTAGGAGGGAGCTTTTTGAAGGAAG
 ACTTATTAACAACAGTAATTCAGCAATGACGTTGATTTACAGCACAACCTTTGACATAAGC
 TCTACATTGCGATTGTGACAACATAGCTTATGAAATCTTTTACAGCTTATTAAGTAGCTCT
 TTGGTAAACACCAAGAAGTTTCTGATAGTGTCTGCACAACAGCAAACCAACATTTGGTG
 AGGAATTAGCAATTTCTGCCAAAGAAAATTGATTCTGCCAATATTTTTTGGAGCTACA
 TAATTAGCTGTTGTGAGATATTTCTCGGGTCTTGCAAAAAAACATACAGACTGTGAA
 CAAATCATTACAAACAGAATAAAAACAGAGCCAACAACAGTATTTTAAAGGTCACCTGGC
 TCCTGTTGACACAATTGTTGCTAAATCAAAGAAGCGTTGTCCAGGTGTGCTACATCTA
 GTGTTACTTTTAAAGAGAATTTGAATGTTTATTGAACAATAGTACTTGAATGAACATTTA
 TAAATGTAATTATTGCGATCACTGGTTAAGAATGTTTTATATCCTTATAATATTTTTTC
 ACTGATCAAAATGTTGTTCTGCTTTTTCTTAAAGGAATACATGTTTGGGATTTTTTA
 TTTTTACGTGTCGAAGATAAGCTCCAGGTCTTATCGTATCCCTTGCCATCTGAACTTG
 TTTGCACTGCTTCTGTTGAAAGAGCATCTTGAAAACTTCCCGGTATGATGATTGTTG
 GTAACAACTTTTCTATAGTCATTGATGGAGTAGATCATGATGGAGGGGAAATCACTGGA
 GATCAAAATATGTAATCATTTCAAATATAAAATCCAGTTTACTCATGGATTTTAGCTAT
 TTTTTCACTGGGTAATATACTACATTTATTTACAAATGAGTTTATGCATTTTCATGGC
 TCTTAATAAACATATTGTTTTCCCTTGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA

Restriction Sites: Please inquire

ACCN:	NM_016377
Insert Size:	2900 bp
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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_016377.2.
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:	<ol style="list-style-type: none">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:	<u>NM_016377.2</u> , <u>NP_057461.1</u>
RefSeq Size:	2821 bp
RefSeq ORF:	981 bp
Locus ID:	9465
UniProt ID:	<u>Q9P0M2</u>
Cytogenetics:	6q23.2
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (gamma) differs in the 5' UTR and has multiple differences in the coding region, compared to variant alpha. The encoded isoform (gamma) is longer and has a distinct N-terminus, compared to isoform alpha.</p>