

Product datasheet for **SC321388**

AKAP8L (NM_014371) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP8L (NM_014371) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKAP8L
Synonyms:	HA95; HAP95; NAKAP; NAKAP95
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014371.2
 GTTCAGAGCAGCAGAAGCCGGCGTCGTCGGATGTTGTGTTGCCCGCCACCATGAGCTACA
 CAGGCTTTGTCCAGGGATCTGAAACCACTTTGCAGTCGACATACTCGGATACCAGCGCTC
 AGCCCACTGTGATTATGGATATGGAACCTTGAACCTCTGGGACAAATAGAGGCTACGAGG
 GCTATGGCTATGGCTATGGCTATGGCCAGGATAACACCACCAACTATGGGTATGGTATGG
 CCACTTCACACTCTTGGGAAATGCCTAGCTCTGACACAAATGCAAACACTAGTGCCTCGG
 GTAGCCAGTGCCGATTCCGTTTTATCCAGAATTAACCAGCGCTTAGATATGGTGCCGC
 ATTTGGAGACAGACATGATGCAAGGAGGCGTGTACGGCTCAGGTGGAGAAAGGTATGACT
 CTTATGAGTCCTGCGACTCGAGGCGCTCCTGAGTGAGCGCGACCTGTACCGGTACAGGCT
 ATGACTACAGCGAGCTTGACCCTGAGATGGAAATGGCCTATGAGGGCCAATACGATGCCT
 ACCGCGACCAGTTCGCGATGCGTGGCAACGACACCTTCGGTCCCAGGGCACAGGGCTGGG
 CCCGGGATGCCCGGAGCGGCCGGCCAATGGCTCAGGCTATGGGCGCATGTGGGAAGACC
 CCATGGGGGCCCGGGCCAGTGCATGTCTGGTGCCTCTCGGCTGCCCTCCCTCTTCTCCC
 AGAACATCATCCCGAGTACGGCATGTTCCAGGGCATGCGAGGTGGGGGCGCCTTCCCGG
 GCGGCTCCCGCTTGGTTTCGGGTTTGGCAATGGCATGAAGCAGATGAGGCGGACCTGGA
 AGACCTGGACCACAGCCGACTTCCGAACCAAGAAGAAGAAGAGAAAGCAGGGCGGACGTC
 CTGATGAGCCAGATAGCAAAGCCACCCGACGGACTGCTCGGACAACAGCGACTCAGACA
 ATGATGAGGGCACCGAGGGGGAAGCCACAGAGGGCCTTGAAGGCACCGAGGCTGTGGAGA
 AGGGCTCCAGAGTGGACGGAGAGGATGAGGAGGGAAAAGAGGATGGGAGAGAAGAAGGCA
 AAGAGGATCCAGAGAAGGGGGCCCTAACCAACCAGGATGAAAAATGGCCAGACCAAGCGCA
 AGTTGCAGGCAGGCAAGAAGAGTCAAGACAAGCAGAAAAAGCGGCAGCGAGACCGCATGG
 TGGAAAGGATCCAGTTTGTGTCTCTGTGCAAATACCGGACCTTCTATGAGGACGAGA
 TGCCAGCCATCTTGACAGCAAGTCCACAAGGAACACTTTAAGTACGTAGGCACCAAGC
 TCCTAAGCAGACGGCTGACTTTCTGCAGGAGTACGTCACTAACAAGACCAAGAAGACAG
 AGGAGCTCCGAAAAACCGTGGAGGACCTTGATGGCCTCATCCAGCAAATCTACAGAGACC
 AGGATCTGACCCAGGAAATTGCCATGGAGCATTTTGTGAAGAAGGTGGAGGCAGCCATT
 GTGCAGCTGCGACCTCTTCAATCCCATGCAGTTTGGGATCATCCAGAAGCATCTGAAGA
 CCATGGATCACAACCGGAACCGCAGGCTCATGATGGAGCAGTCCAAGAAGTCTCCCTCA
 TGGTGGCCCGCAGTATTCTCAACAACAAGCTCATCAGCAAGAAGCTGGAGCGCTACCTGA
 AGGGCGAGAACCCTTTCACCGACAGCCCCGAGGAGGAGAAGGAGCAGGAGGAGGCTGAGG
 GCGGTGCCCTGGACGAGGGGGCGCAGGGCGAAGCGGCAGGGATCTCGGAGGGCGCAGAGG
 GCGTGCCGGCGCAGCCTCCCGTGCCTCCAGAGCCAGCCCCGGGGCCGTGTGCGCCGCAC
 CGCCGCCGCCCCAGAGGAGGAGGAGGAGGGCGCCGTGCCCTTGCTGGGAGGGGCGCTGC
 AACGCCAGATCCGCGGCATCCCGGGCTCGACGTGGAGGACGACGAGGAGGGCGGCGGGG
 GCGCCCCGTGACCCGAGCTCGGGGCGGGCGGAGCCCGCTGGCCGAAGCTGGAACCAAA
 CCTAATAAAGTTTTCCATCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_014371

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).
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_014371.2</u> , <u>NP_055186.2</u>
RefSeq Size:	2136 bp
RefSeq ORF:	1941 bp
Locus ID:	26993
UniProt ID:	<u>Q9ULX6</u>
Cytogenetics:	19p13.12
Domains:	AKAP95
Protein Families:	Druggable Genome
Gene Summary:	<p>Could play a role in constitutive transport element (CTE)-mediated gene expression by association with DHX9. Increases CTE-dependent nuclear unspliced mRNA export (PubMed:10748171, PubMed:11402034). Proposed to target PRKACA to the nucleus but does not seem to be implicated in the binding of regulatory subunit II of PKA (PubMed:10761695, PubMed:11884601). May be involved in nuclear envelope breakdown and chromatin condensation. May be involved in anchoring nuclear membranes to chromatin in interphase and in releasing membranes from chromatin at mitosis (PubMed:11034899). May regulate the initiation phase of DNA replication when associated with TMPO isoform Beta (PubMed:12538639). Required for cell cycle G2/M transition and histone deacetylation during mitosis. In mitotic cells recruits HDAC3 to the vicinity of chromatin leading to deacetylation and subsequent phosphorylation at 'Ser-10' of histone H3; in this function seems to act redundantly with AKAP8 (PubMed:16980585). May be involved in regulation of pre-mRNA splicing (PubMed:17594903).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).</p>