

## Product datasheet for **RC238988**

### **AKAP8L (NM\_001291478) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AKAP8L (NM_001291478) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP8L
Synonyms:	HA95; HAP95; NAKAP; NAKAP95
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238988 representing NM\_001291478  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCTACACAGGCTTTGTCCAGGGATCTGAAACCATTTCAGTCGACATACTCGGATACCAGCGCTC  
 AGCCACCTGTGATTATGGATATGGAACCTGGAACCTCTGGGACAAATAGAGGCTACGAGGGCTATGGCTA  
 TGGCTATGGCTATGGCCAGGATAACACCACCAACTATGGGTATGACTCTTATGAGTCCTGCGACTCGAGG  
 GCCGCTCTGAGTGAGCGCGACTGTACCGGTGAGGCTATGACTACAGCGAGCTTGACCCTGAGATGGAAA  
 TGGCCTATGAGGGCCAATACGATGCCTACCGCGACCAGTCCGCATGCGTGGCAACGACACCTTCGGTCC  
 CAGGGCACAGGGCTGGGCCCGGGATGCCCGAGCGGCCGCAATGGCCTCAGGCTATGGGCGCATGTGG  
 GAAGACCCATGGGGGCCGGGGCCAGTGCATGTCTGGTGCCTCTCGGCTGCCCTCCCTCTTCTCCAGA  
 ACATCATCCCGAGTACGGCATGTTCCAGGGCATGCGAGGTGGGGCGCCTTCCCGGGCGCTCCCGCTT  
 TGGTTTCCGGTTTGGCAATGGCATGAAGCAGATGAGGCGGACCTGGAAGACCTGGACCACAGCCGACTTC  
 CGAACCAAGAAGAAGAAGAGAAAGCAGGGCGGAGTCCCTGATGAGCCAGATAGCAAAGCCACCCGACCG  
 ACTGCTCGGACAACAGCGACTCAGACAATGATGAGGGCACCGAGGGGGAAGCCACAGAGGGCCTTAAGG  
 CACCGAGGCTGTGGAGAAGGGCTCCAGAGTGGACGGAGAGGATGAGGAGGGAAAAGAGGATGGGAGAGAA  
 GAAGGCAAAGAGGATCCAGAGAAGGGGGCCCTAACCCACCGAGATGAAAAAGGCCAGACCAAGCGCAAGT  
 TGCAGGCAGGCAAGAAGAGTCAAGACAAGCAGAAAAAGCGGCAGCGAGACCGCATGGTGGAAAGGATCCA  
 GTTTGTGTGTTCTCTGTGCAATACCGGACCTTCTATGAGGACGAGATGGCCAGCCATCTTGACAGCAAG  
 TTCCACAAGGAACACTTTAAGTACGTAGCACCAAGCTCCCTAAGCAGACGGCTGACTTTCTGCAGGAGT  
 ACGTCACTAACAAAGACCAAGAAGACAGAGGAGCTCCGAAAAACCGTGGAGGACCTTGATGGCCTCATCCA  
 GCAAACTACAGAGACCGAGATCTGACCCAGGAAATTGCCATGGAGCATTTTGTGAAGAAGGTGGAGGCA  
 GCCATTGTGCAGCCTGCGACCTCTTATCCCATGCAGTTTGGGATCATCCAGAAGCATCTGAAGACCA  
 TGGATCACAACCGGAACCGCAGGCTCATGATGGAGCAGTCCAAGAAGTCCCTCCCTCATGGTGGCCCGCAG  
 TATTCTCAACAACAAGCTCATCAGCAAGAAGCTGGAGCGCTACCTGAAGGGCGAGAACCCTTTCACCGAC  
 AGCCCCGAGGAGGAGAAGGAGCAGGAGGAGGCTGAGGGCGGTGCCCTGGACGAGGGGGCGCAGGGCGAAG  
 CGGCAGGGATCTCGAGGGCGCAGAGGGCGTCCCGGCGCAGCCTCCCGTGCCTCCAGAGCCAGCCCCGG  
 GGCCGTGTGCGCCACCAGCCGCGCCAGAGGAGGAGGAGGGCGCGCTGCCCTTGTGGGAGGG  
 GCGCTGCAACGCCAGATCCGCGGCATCCGGGCCCTCGACGTGGAGGACGACGAGGAGGGCGCGGGGGCG  
 CCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238988 representing NM\_001291478  
 Red=Cloning site Green=Tags(s)

MSYTFVQGSSETTLQSTYSDTSAQPTCDYGYGTWNSGTNRGYEGYGYGYGQDNTTNYGYDSYESCDSR  
 AVLSELDLYRSGYDYSELDPMEMAYEQYDAYRDQFRMRGNDTFGPRAQWARDARSGRPMASGYGRMW  
 EDPMGARQCMSGASRLPSLFSQNIPEYGMFQGMRRGGAFPGGSRFGFGNGMKQMRRTWKTWTTADF  
 RTKKKRRKQGGSPDEPDSKATRTDCSDNSDNDNDEGTEGEATEGLEGTEAVEKGSRVDEDEEGKEDGRE  
 EGKEDPEKALTTQDENGQTKRKLQAGKKSQDKQKQRDRMVERIQFVCSLCKYRTFYEDEMASHLDSK  
 FHKEHFYVGTLPKQTADFLQEVYVTKTKKTEELRKTVEDLDGLIQQIYRDQDLTQEIAMEHFVKKVEA  
 AHCAACDLFIPMQFGIIQKHLKTMDHNRNRRLMMEQSKKSSLMVARSILNNKLSKKLERYLKGENPFTD  
 SPEEEKEQEEAEGGALDEGAQGEAAGISEGAEGVPAQPPVPEPAPGAVSPPPPPPEEEEEEGAVPLLG  
 ALQRQIRGIPGLDVEDDEEGGGAP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

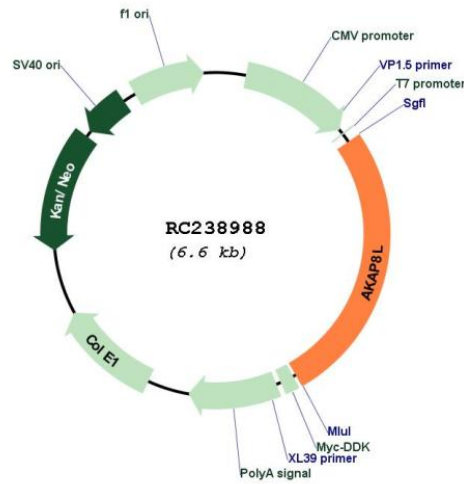
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001291478

ORF Size: 1755 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001291478.2</a>
<b>RefSeq Size:</b>	2048 bp
<b>RefSeq ORF:</b>	1758 bp
<b>Locus ID:</b>	26993
<b>UniProt ID:</b>	<a href="#">Q9ULX6</a>
<b>Cytogenetics:</b>	19p13.12
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	65.7 kDa
<b>Gene Summary:</b>	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]