

Product datasheet for **RC200233**

AKAP8L (NM_014371) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP8L (NM_014371) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP8L
Synonyms:	HA95; HAP95; NAKAP; NAKAP95
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC200233 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

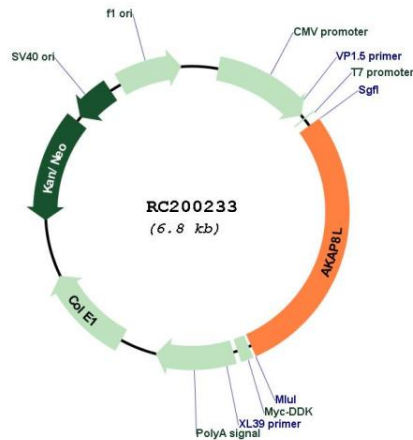
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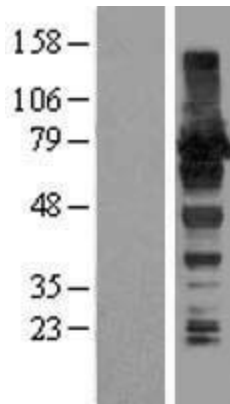
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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_014371.4</u>
RefSeq Size:	2231 bp
RefSeq ORF:	1941 bp
Locus ID:	26993
UniProt ID:	<u>Q9ULX6</u>
Cytogenetics:	19p13.12
Domains:	AKAP95
Protein Families:	Druggable Genome
MW:	71.6 kDa
Gene Summary:	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]

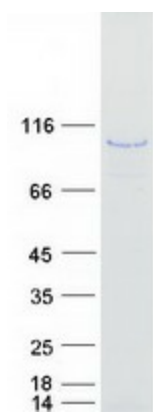
Product images:



Circular map for RC200233



Western blot validation of overexpression lysate (Cat# [LY415335]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200233 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AKAP8L protein (Cat# [TP300233]). The protein was produced from HEK293T cells transfected with AKAP8L cDNA clone (Cat# RC200233) using MegaTran 2.0 (Cat# [TT210002]).