

Product datasheet for **RG200233**

AKAP8L (NM_014371) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP8L (NM_014371) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AKAP8L
Synonyms:	HA95; HAP95; NAKAP; NAKAP95
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200233 representing NM_014371
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTACACAGGCTTTGTCCAGGGATCTGAAACCATTTCAGTCGACATACTCGGATACCAGCGCTC
 AGCCACCTGTGATTATGGATATGGAACCTGGAACCTCTGGGACAAATAGAGGCTACGAGGCTATGGCTA
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 GAATTAACAGCGCTTAGATATGGTGCCGATTTGGAGACAGACATGATGCAAGGAGCGGTGACGGCTC
 AGGTGGAGAAAGGTATGACTCTTATGAGTCTGCGACTCGAGGGCCGCTGAGTGAGCGCGACCTGTAC
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 ACCGCGACCAGTCCGCATGCGTGGCAACGACACCTTCGGTCCCAGGGCACAGGGCTGGGCCGGGATGC
 CCGGAGCGGCCGCAATGGCCTCAGGCTATGGGCGCATGTGGGAAGACCCATGGGGGCCGGGGCCAG
 TGCATGTCTGGTGCCTCTCGGCTGCCCTCCCTTCTCCAGAACATCATCCCGAGTACGGCATGTTC
 AGGGCATGCGAGGTGGGGCGCCTTCCCGGGCGGCTCCCGCTTTGGTTTCGGGTTTGGAATGGCATGAA
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 GAGGCTGAGGGCGGTGCCCTGGACGAGGGGGCGCAGGGCGAAGCGGCAGGGATCTCGGAGGGCGCAGAGG
 GCGTGCCGGCGCAGCCTCCCGTGCCTCCAGAGCCAGCCCGGGGCGCTGTGCGCCACCAGCCCGCCGCC
 CCCAGAGGAGGAGGAGGAGGGCGCGCTGCCCTGCTGGGAGGGCGCTGCAACGCCAGATCCGCGGCATC
 CCGGGCTCGACGTGGAGGACGACGAGGAGGGCGGGGGCGCCCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200233 representing NM_014371
 Red=Cloning site Green=Tags(s)

MSYTFVQGSSETTLQSTYSDTSAQPTCDYGYGTWNSGTNRGYEGYGYGYGQDNTTNYGYGMATSHSWE
 MPSSDTNANTSASGSASADSVLSRINQLDMVPHLETMMQGGVYGSGERYDSYESCDRAVL SERDLY
 RSGYDYSELDPMEMAYEGQYDAYRDQFRMRGNDTFGPRAQGWARDARSGRPMASGYGRMWEDPMGARGQ
 CMMSGASRLPSLFSQNI IPEYGMFQGMRRGGAFFGGSRFGFGNGMKQMRRTWKTTWTTADFRTKKKRRKQ
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 ALLTTQDENQTKRKLQAGKKSQDKQKQRDRMVERIQFVCSLCKYRTFYEDEMASHLDSKFHKEHFYV
 GTKLPKQTADFLQEYVTNKKTEELRKTVEDLDGLIQQIYRDQDLTQE IAMEHFVKVVEAAHCAACDLF
 IPMQFGIIQKHLKTMHNRNRLMMEQSKKSSLMVARSILNNKLI SKKLERYLKGENPFTDSPEEEKEQE
 EAEGGALDEGAQGEAAGISEGAEGVPAQPPVPEPAPGAVSPPPPPPEEEEEGAVPLLGGALQRQIRGI
 PGLDVEDDEEGGGGAP

TRTRPLE – GFP Tag – V

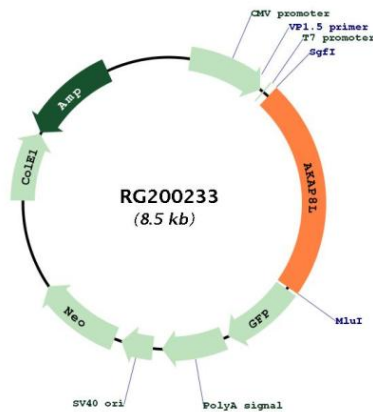
Cytogenetics: 19p13.12

Domains: AKAP95

Protein Families: Druggable Genome

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 RG200233