

Product datasheet for RG238988

AKAP8L (NM_001291478) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP8L (NM_001291478) 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)
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Sgfi ORF Miul

Sgri Citri mili ---- CCGATCGC C ATO ---- ACG CGT ----Kozac <u>Kozac</u> <u>Consensus</u> <u>Kozac</u> <u>Consensus</u> <u>Sgri Asci</u> CTATAGGGCGGCCGGCAGTCGCGGCGCCGAGTCCG

 Hind III
 Nhe I
 Rsr II
 Mlu I
 Not I
 Xho I
 GFP Tag

 CAAGCTTAACTAGCTAGCGGACCG
 ACG
 CGT
 ACG
 CGG
 CCG
 CCC
 GAG
 ATG
 GAC
 -- --

 T
 R
 T
 R
 P
 L
 E
 M
 E
 S
 D

--- --- GAA GAA AGA GAT TAA ACGGCCGGCGGGGGGGCT - - E E R V Stop

 ACCN:
 NM_001291478

 ORF Size:
 1755 bp



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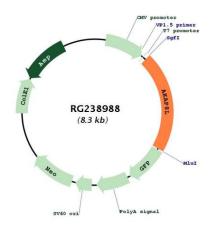
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	AKAP8L (NM_001291478) Human Tagged ORF Clone – RG238988
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through 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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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).
RefSeq:	<u>NM 001291478.2</u>
RefSeq Size:	2048 bp
RefSeq ORF:	1758 bp
Locus ID:	26993
UniProt ID:	<u>Q9ULX6</u>
Cytogenetics:	19p13.12
Protein Families	: Druggable Genome
MW:	65.7 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 chromating 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]

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Product images:



Circular map for RG238988

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