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Product datasheet for RC223812

AKAP7 (NM_138633) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP7 (NM_138633) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP7
Synonyms:	AKAP15; AKAP18
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC223812 representing NM_138633 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGCCAGCTTTGCTGCTTTCCTTTCTCAAGAGATGAAGGAAAAATCAGTGAGTTGGAAAGCTCGTCCT CTGCAGTCCTACAGAGATACAGCAAGGATATACCCAGTTGGTCAAGTGGTGAAAAGAACGGAGGGGAGCC CGATGACGCTGAACTAGTAAGGCTCAGTAAGAGGCTGGTGGAGAACGCGGTGCTCAAGGCTGTCCAGCAG TATCTGGAGGAAACACAGAATAAAAACAAGCCGGGGGAGGGGAGCTCTGTGAAAACCGAAGCAGCTGATC AGAATGGCAATGACAATGAGAACAACAGGAAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC223812 representing NM_138633 Red=Cloning site Green=Tags(s) MGQLCCFPFSRDEGKISELESSSSAVLQRYSKDIPSWSSGEKNGGEPDDAELVRLSKRLVENAVLKAVQQ YLEETQNKNKPGEGSSVKTEAADQNGNDNENNRK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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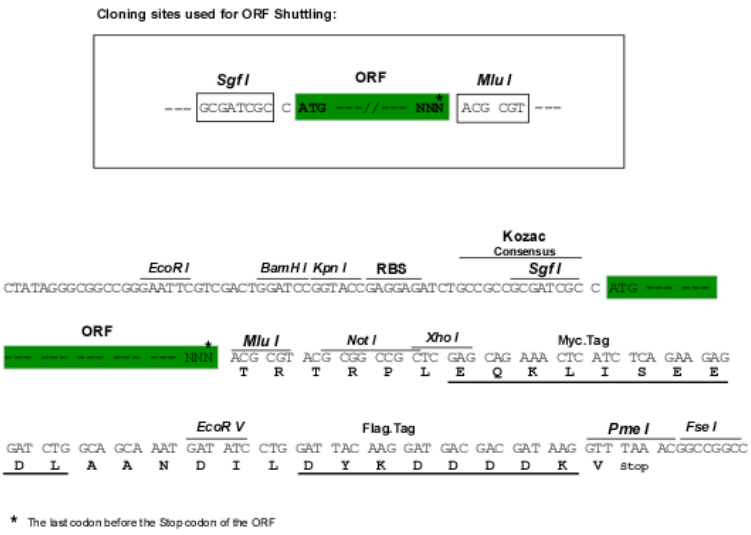
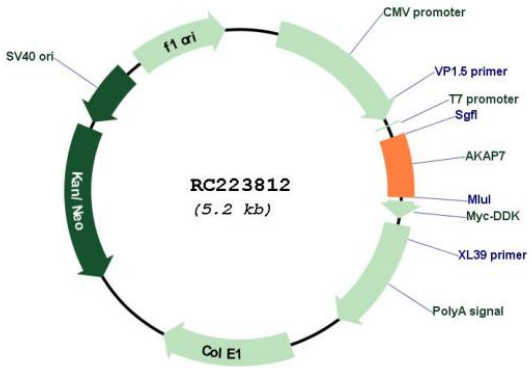
Cloning Scheme:



Plasmid Map:



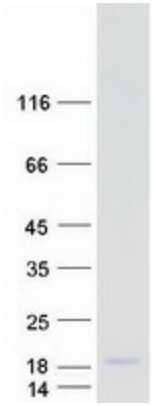
ACCN: NM_138633

ORF Size: 312 bp

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. More info

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).
Reconstitution Method:	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:	NM_138633.3
RefSeq Size:	2348 bp
RefSeq ORF:	315 bp
Locus ID:	9465
UniProt ID:	O43687
Cytogenetics:	6q23.2
Protein Families:	Druggable Genome
MW:	11.3 kDa
Gene Summary:	This gene encodes a member of the A-kinase anchoring protein (AKAP) family, a group of functionally related proteins that bind to a regulatory subunit (RII) of cAMP-dependent protein kinase A (PKA) and target the enzyme to specific subcellular compartments. AKAPs have a common RII-binding domain, but contain different targeting motifs responsible for directing PKA to distinct intracellular locations. Three alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Apr 2011]

Product images:



Coomassie blue staining of purified AKAP7 protein (Cat# [TP323812]). The protein was produced from HEK293T cells transfected with AKAP7 cDNA clone (Cat# RC223812) using MegaTran 2.0 (Cat# [TT210002]).