

Product datasheet for **RC205543**

AKAP associated Sperm Protein (ROPN1L) (NM_031916) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP associated Sperm Protein (ROPN1L) (NM_031916) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP associated Sperm Protein
Synonyms:	ASP; RSPH11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205543 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCTTCCCGACACCATGTTCTGCGCTCAGCAGATCCACATTCCTCCCGGAGCTGCCGGACATCCTGA
AGCAATTCACCAAGGCTGCCATCCGCACCCAGCCGGCCGACGTGCTGCGGTGGTCCGCGGGCTATTTTTTC
AGCTCTGTCGAGAGGAGATCCACTTCTGTAAAGGACAGAATGGAAATGCCACGGCAACCCAGAAAACA
GACACAGGCTGACTCAAGGACTCCTGAAAGTTTTGCACAAGCAGTGTCACCACAAGCGGTATGTGGAAT
TAACAGATCTTGAGCAGAAGTGAAGAAGTGTGCCTGCCGAAGGAAAAATTCAAAGCGCTTTACAAC
GGATCCTTGTAACAAATCAAGTGGATAAACTTTTTAGCGCTTGGATGCAGCATGCTTGGTGGGTCC
TTGAACACTGCGCTGAAGCACCTGTGCGAGATCCTCACGGACGATCGGGAGGGCGGGCCCGCTCGCATCC
CCTTCAAGACGTTTTCTACGTTTACCGCTACTTGGCCAGATTAGACTCAGATGTGTCTCCCTTGGAGAC
GGAATCCTACCTTGCCTCTAAAGGAAAATATAGACGCCAGGAAGAACGGCATGATAGGTCTTTTCAGAT
TTCTTCTTTCAAAGAGGAACTTTTAGAAAGCATTGAAAAGTCTGAAGATGTAGGCCAT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205543 protein sequence
Red=Cloning site Green=Tags(s)

MPLPDTMFCAQQIHIPPELPDILKQFTKAAIRTQPADVLRSAGYFSALSRGDPLPVKDRMEMPTATQKT
 DTGLTQGLLKVHLHKQCHHKRYVELTDLEQKWKNLCLPKEKFKALLQLDPCENKIKWINFLALGCSMLGGS
 LNTALKHLCEILTDDREGGPARIPFKTF SYVYRYLARLSDVSPLETESYLASLKENIDARKNGMIGLSD
 FFFPKRKLLESIENSEDVGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6314_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031916

ORF Size: 690 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_031916.5](#)

RefSeq Size: 1093 bp

RefSeq ORF: 693 bp

Locus ID: 83853

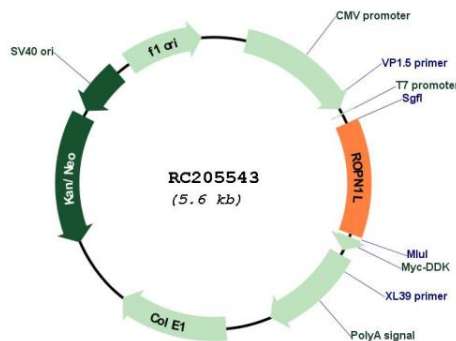
UniProt ID: [Q96C74](#)

Cytogenetics: 5p15.2

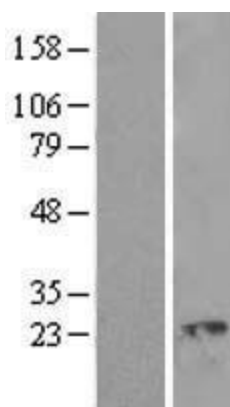
MW: 26.2 kDa

Gene Summary: This gene encodes a member of the ropporin family. The encoded protein is present in sperm and interacts with A-kinase anchoring protein, AKAP3, through the amphipathic helix region of AKAP3. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2014]

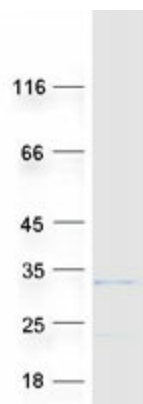
Product images:



Circular map for RC205543



Western blot validation of overexpression lysate (Cat# [LY410431]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205543 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ROPN1L protein (Cat# [TP305543]). The protein was produced from HEK293T cells transfected with ROPN1L cDNA clone (Cat# RC205543) using MegaTran 2.0 (Cat# [TT210002]).