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Product datasheet for RC212329

ARAP1 (NM_001040118) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARAP1 (NM_001040118) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARAP1
Synonyms:	CENTD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC212329 representing NM_001040118
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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AAGGAAGTGGACCGGCGCAGCTTCGACCTCACCACGCCCTACCGCATCTTCAGCTTCTCTGCTGACTCAG
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Protein Sequence:

>RC212329 representing NM_001040118
Red=Cloning site Green=Tags(s)

MAEAGDAALSVAEWLRALHLEQYTGLFEQHGLVWATECQGLSDTRLMDMGMLLPGHRRRILAGLLRAHTS
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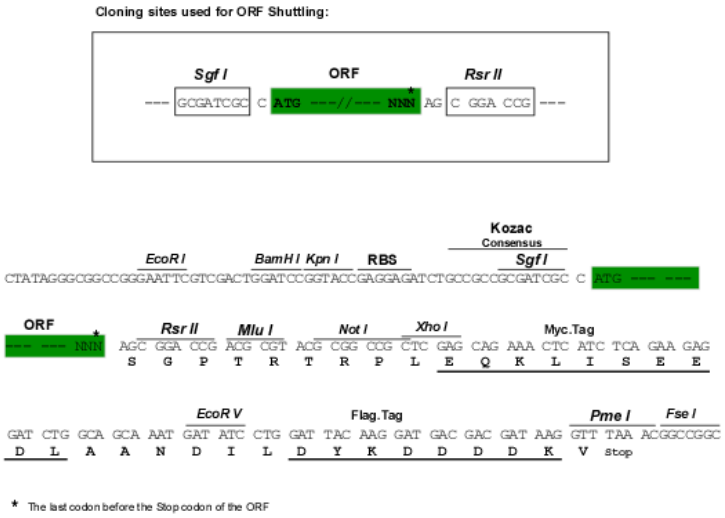
SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8026_c07.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:

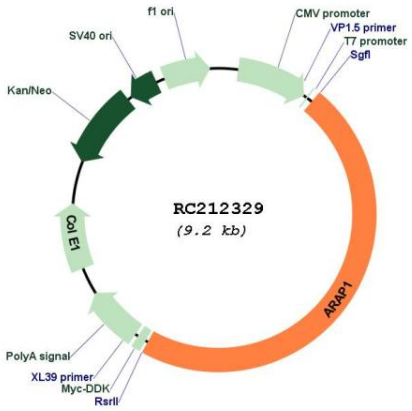


ACCN: NM_001040118

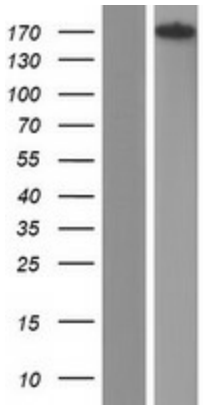
ORF Size: 4350 bp

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_001040118.2, NP_001035207.1
RefSeq Size:	4948 bp
RefSeq ORF:	4353 bp
Locus ID:	116985
UniProt ID:	Q96P48
Cytogenetics:	11q13.4
Protein Pathways:	Endocytosis
MW:	162 kDa
Gene Summary:	The protein encoded by this gene contains SAM, ARF-GAP, RHO-GAP, ankyrin repeat, RAS-associating, and pleckstrin homology (PH) domains. In vitro, this protein displays RHO-GAP and phosphatidylinositol (3,4,5) trisphosphate (PIP3)-dependent ARF-GAP activity. The encoded protein associates with the Golgi, and the ARF-GAP activity mediates changes in the Golgi and the formation of filopodia. It is thought to regulate the cell-specific trafficking of a receptor protein involved in apoptosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008]

Product images:



Circular map for RC212329



Western blot validation of overexpression lysate (Cat# [LY421684]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212329 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).