

## Product datasheet for **SC325394**

### ARAP1 (NM\_001135190) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ARAP1 (NM\_001135190) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ARAP1  
**Synonyms:** CENTD2  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001135190, the custom clone sequence may differ by one or more nucleotides

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ATGACCAAGAAGGAGGAGCCCCACCGAGCCGAGTCCCACGGGCCGTGCGCGTGGCCAGT
CTGCTGAGCGAGGGAGAGGAAGTGTCTGGGGACGACCAAGGGGATGAGGAAGAGGATGAC
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AGCCTGGAGCTTCGTGGCTTCAAGAATAAGCTGTACGTGGCCGTGGTTCGGGGACAAAGTG
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CTGTACCTGTTTGGGCTGGAGAGTGGGAGCAGGCTCATGAGTGGGTCAAGTGTATTGCT
AAGGCATTCGTGCCTCCCTAGCCGAGGATCTGCTGGCCCGGATTTTGGCGGCTGGGA
CGCCTACCCTACAAAGCTGGCCTGAGCCTACAGCGGGCCAGGAGGGCTGTTCTCTCTC

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AGTGGCTCGGAGCTCCGTGCTGTCTTCCCGGAGGGGCCCTGCGAAGAGCCGCTGCAACTA
CGGAAACTGCAGGAGCTTTCATCCAGGGGGACAGTGAGAACCAGGTGCTGGTGTGGTG
GAGCGAAGGAGGACACTGTACATACAGGGCGAGCGGGCTGGACTTCATGGGTTGGCTG
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CCTATTAAGAGTCTCAAAGTCTACCTGGGAGTGAAGAAGAAACTCAGGCCACCCACTGC
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TGTGACACACAGATGGAGCTCCGGGAGTGGTTCGCTACCTTTCTGTTTGTGCAGCATGAC
GGCCTGGTGTGGCCCTCAGAGCCCTCACGCGTGTCCCGGGCAGTGCCTGAGGTCCGGCTG
GGTAGTGTGCTACTGATCCCCCTTCGAGGTAGTGAAAATGAAAATGCGCCGGAGTGTGGCT
GCCTTACCGCGGACCCTCTGTCTTTCTGCGCAACGTC

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**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001135190

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:**

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001135190.1](#), [NP\\_001128662.1](#)

RefSeq Size: 4750 bp

RefSeq ORF: 3402 bp

Locus ID: 116985

UniProt ID: [Q96P48](#)

Cytogenetics: 11q13.4

Protein Pathways: Endocytosis

**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]  
Transcript Variant: This variant (4) differs in the 5' UTR and lacks two alternate in-frame coding exons, compared to variant 3. the resulting protein (isoform d) has a shorter N-terminus and lacks the SAM domain and portions of the ArfGAP and fifth PH domains, compared to isoform c.