

## Product datasheet for **RG216798**

### **CENTD1 (ARAP2) (NM\_015230) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CENTD1 (ARAP2) (NM_015230) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARAP2
Synonyms:	CENTD1; PARX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216798 representing NM_015230 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCTCAGTCAGTGAAGTAAATGTGGATATAAAAGATTTCTAATGAGCATTAAATTTGGAGCAGTATC  
TCTTACATTTCCATGAGTCTGGTTTTACTACTGTGAAGGACTGTGCAGCAATAAATGACAGCCTGCTGCA  
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AAACTCTCCTCAAGGAAAACGCATGTTTCAAAAAGAGATGGGTGAAATTTGATGGCCTTAGCATTCTT  
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AG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG216798 representing NM\_015230

Red=Cloning site Green=Tags(s)

MSSVSEVNVDIKDFLMSINLEQYLLHFHESGFTTVKDCAAINDSLLQKIGISPTGHRRLKQLQIILSK  
 MQDIPYANVHKTKKNDPSKDYHVPSSDQNICIELSNSGVSQTSSPPQLETVRKNLESDASVERSQYP  
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 EYVYVERKEPDCSIIIRISPVMEAEELTNDILAIKNIIPTKGDIWATFEVIENEELERPLHYKENVLEQVL  
 RWSSLAEPGSAYLVVKRFLTADTIKHCSRSTLGSIKEGILKIKEEPSKILSGNKFQDRYFVLRDGFLL  
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 IWPPAGKERKRSITKNPKIGGLPLIPIQHEGNATLARKNIESARAELERLRLSEKCDKESVDSSLKERAS  
 MYAHCLEHKDDKLRNRPRKHRSFNCLDETEPEAPLGQPKGHKGLKTLRKTEDRNSKATLSDHKLPSRVI  
 EELNVVLQRSRTLPKELQDEQILK

TRTRPLE - GFP Tag - V

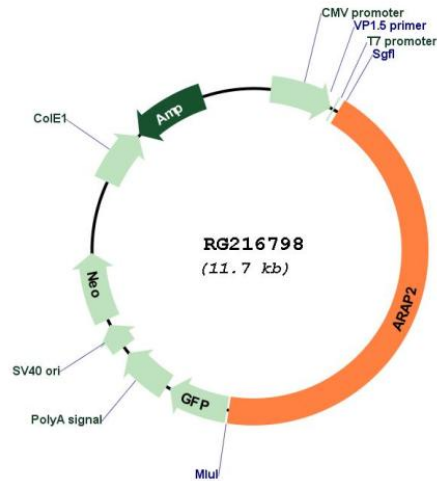
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_015230

ORF Size: 5112 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\\_015230.2](#), [NP\\_056045.2](#)

**RefSeq Size:** 7360 bp

**RefSeq ORF:** 5115 bp

**Locus ID:** 116984

**UniProt ID:** [Q8WZ64](#)

**Cytogenetics:** 4p14

**Domains:** RhoGAP, ArfGap, SAM, PH

**Protein Pathways:** Endocytosis

**Gene Summary:** The protein encoded by this gene contains ARF-GAP, RHO-GAP, ankyrin repeat, RAS-associating, and pleckstrin homology domains. The protein is a phosphatidylinositol (3,4,5)-trisphosphate-dependent Arf6 GAP that binds RhoA-GTP, but it lacks the predicted catalytic arginine in the RHO-GAP domain and does not have RHO-GAP activity. The protein associates with focal adhesions and functions downstream of RhoA to regulate focal adhesion dynamics. [provided by RefSeq, Sep 2008]