

## Product datasheet for **RG203724**

### **CENTB1 (ACAP1) (NM\_014716) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CENTB1 (ACAP1) (NM_014716) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CENTB1
Synonyms:	CENTB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG203724 representing NM\_014716  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACGGTCAAGCTGGATTTTCGAGGAGTGTCTCAAGGACTCACCCGTTTCCGAGCCTCTATTGAGCTGG  
TGAAGCCGAAGTGTGAGAATTGGAGACCCGCTGGAAAAAGCTCCTGAAACTGGGCACTGGTCTCCTGGA  
AAGTGGGCGCCATTACCTTGCTGCCAGCCGCGCCTTCGTTGTGCGCATTGTGACCTGGCCCGCCTGGGT  
CCACCAGAGCCCATGATGGCGGAGTGTCTGAAAAAATCACCGTGAACCAAGCTGGACAGCC  
ATGCGGAGCTTCTAGATGCCACCAACACACACTGCAGCAGCAGATCCAGACCCTGGTCAAGGAAGTCT  
GCGGGTTCGAGAGGCTCGCCGGATTTCTGGCGGGGGCTGAGAGCCTGGAGGCTGCCCTGACCCAC  
AACGCAGAGGTTCCAGGCGCCGGGCCAGGAGGCAGAAGAGGCAGGAGCTGCTTTGAGGACGGCTCGAG  
CTGGGTACCGGGACGGGCACTGGATTATGCCCTGCAGATCAACGTGATTGAGGACAAGAGGAAGTTTGA  
CATCATGGAGTTTGTGCTGCGTTTGGTGGAGGCCAGGCTACCCATTTCCAGCAGGGCCATGAGGAGCTG  
AGCCGGCTGTCCAGTATCGAAAGGAGCTGGGCGCCAGTTGCACCAGCTGGTCTTGAATTCAGCAGCAG  
AGAAGAGGGACATGGAGCAGAGACAGTCTGCTGAAACAGAAGGAGCTGGTGGGGAGGAGCCAGAACC  
AAGCTTAAGAGAGGGGCTGGTGGCCTGGTGTGGAAGGACATCTCTTCAAACGGGCCAGCAACGCATTT  
AAGACCTGGAGCAGACGCTGGTTCACCATTCAGAGCAACCAACTGGTTTACCAGAAGAAGTACAAGGACC  
CTGTGACTGTGGTGGTGGATGACCTTCGCTCTGCACAGTGAACCTGACCCTGACTCAGAAAGGCGGTT  
CTGCTTTGAGGTGGTGTCCACCAGCAAGTCTGCCTCCTCCAGGCTGACTCAGAGCGCCTCCTGCAGCTG  
TGGTCACTGTGTGCAGAGCAGCATTGCTTCTGCCTTCACTCAGGCTCGCCTTGATGACAGCCCCGGG  
GTCCAGGCCAGGGCTCAGGACACTGGCCATAGGCTCTGCTGCCACCCTGGGCTCTGGTGAATGGCCAG  
GGGAAGGGAGCCTGGGGAGTCGGGCACGTGGTGGCCAGGTCCAGAGTGTGGATGGCAATGCCAGTGC  
TGCAGTCCCGGGAGCCAGCCCCGAGTGGGCCAGCATCAACCTTGGTGTACCCTCTGCATTCACTGTT  
CCGGCATCCACAGGAGCCTTGGTGTCACTTCTCAAAGTCCGGTCTCTGACCCTTGACTCATGGGAGCC  
AGAAGTGTGAAGCTCATGTGTGAGCTGGGAAATGTATCATCAACCAGATCTATGAGGCCCGCGTGGAG  
GCCATGGCAGTGAAGAAACCAGGGCCAGCTGCTCCCGCAGGAGAAGGAGGCCTGGATTCACGCTAAAT  
ACGTGGAGAAGAAGTTCCTGACCAAGCTGCCTGAGATTCGAGGGCGAAGAGGTGGCCGGGGCGCCCAAG  
GGGGCAGCCTCCTGTGCCCCAAAGCCTCCATCAGGCCCGGCCAGGGAGCTTGAGATCAAGCCAGAG  
CCCCCTCTGAGGACCTGGGAAGCTGCACCCTGGGGCCTACTGTTTCGAGCGTCTGGGCATCCTCCAT  
CTCTTCCACCATGGCTGATGCCCTTGCCATGGAGCTGATGTCAACTGGGTCAATGGGGCCAAGATAA  
TGCCACACCGCTGATCCAGGCCACAGCTGCTAATTCCTTCTGGCCTGTGAGTTTCTCCTCCAGAACGGG  
GCGAACGTGAACCAAGCGGACAGTGCAGGCCGGGGCCCGCTGCACCACGCAACCATTTCTGGCCACACGG  
GGCTCGCTGCCTGTTCTGAAACGGGGAGCTGATCTGGGGGCTCGAGACTCTGAAGGCAGGGACCTCT  
GACCATCGCCATGGAAACAGCCAACGCTGACATCGTACCCTGCTACGACTGGCAAAGATGAGGGAGGCT  
GAAGCGGCCAGGGCAGGAGGATGAGACGTATCTTGACATCTTCCGCGACTTCTCCCTCATGGCGT  
CAGACGACCCGGAGAAGCTGAGCCGTGCGAGTCATGACCTCCACACGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG203724 representing NM\_014716  
Red=Cloning site Green=Tags(s)

MTVKLDFEELKDSPPRFASIELVEAEVSELETRLEKLLKLTGTLLESGRHYLAASRAFFVVGICDLARLG  
 PPEPMMAECLKFTVSLNHLKLSHAELLDATQHTLQQQIQTLVKEGLRGFREARRDFWRGAESLEAALTH  
 NAEVPRRRAQEAEEAGAALRTARAGYRGRALDYALQINVIEDKRKFDIMEFVLRRLVEAQATHFQQGHEEL  
 SRLSQYRKELGAQLHQLVLNSAREKRDMEQRHVLLKQKELGGEEPEPSLREGPGGLVMEGLFKRASNAF  
 KTWSRRWFTIQSNQLVYQKYYKDPVTVVVDDLRLCTVKLCPDSERRFCFEVVSTSKSCLLQADSERLLQL  
 WYSAVQSSIASAFSQARLDDSPRPGQGSGHLAIGSAATLGSMMARGREPGGVGHVVAQVQSVGDNAQC  
 CDCREPAPEWASINLGVTLCIQCSGIHRS LGVHFSKVRSLTLDSEPELVKLMCELGNVIINQIYEARVE  
 AMAVKKPGPSCSRQEKEAWIHAKYVEKKFLTKLPEIRGRRGGRPRGQPPVPPKPSIRPRPGSLRSKPE  
 PPSEDLGS LHPGALLFRASGHPPSLPTMADALAHGADVNVWNGGDNATPLIQATAANSL LACEFLLQNG  
 ANVNQADSAGRPLHHAITLGH TGLACLFLKRGADLGARDSEGRDPLTIAMETANADIVTLLRLAKMREA  
 EAAQGGAGDETYLDIFRDFSLMASDDPEKLSRRSHDLHTL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014716

**ORF Size:** 2220 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\\_014716.4](#)

**RefSeq Size:** 2498 bp

**RefSeq ORF:** 2223 bp

**Locus ID:** 9744

**UniProt ID:** [Q15027](#)

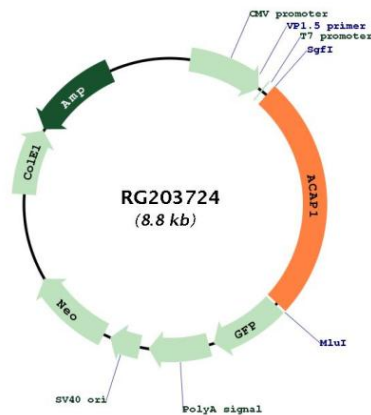
**Cytogenetics:** 17p13.1

**Domains:** ArfGap, PH, ANK

**Protein Pathways:** Endocytosis

**Gene Summary:** GTPase-activating protein (GAP) for ADP ribosylation factor 6 (ARF6) required for clathrin-dependent export of proteins from recycling endosomes to trans-Golgi network and cell surface. Required for regulated export of ITGB1 from recycling endosomes to the cell surface and ITGB1-dependent cell migration.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG203724