

## Product datasheet for **RC209171**

### Centaurin beta 2 (ACAP2) (NM\_012287) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Centaurin beta 2 (ACAP2) (NM_012287) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Centaurin beta 2
Synonyms:	CENTB2; CNT-B2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC209171 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGATGACTGTGGATTTTCGAGGAGTGTCTGAAGGACTCGCCCGCTTCAGGGCAGCTTTGGAAGAAG  
 TAGAAGGTGATGTGGCAGAATTGGAACAAAACCTTGATAAGCTTGTGAACTTTGTATTGCAATGATTGA  
 TACTGGAAAAGCCTTTTGTGTTGCAAATAAACAGTTTCATGAATGGGATTCGAGACCTGGCTCAGTATTCT  
 AGTAATGATGCTGCTGTTGAGACAAGTTTGACCAAGTTTTCTGACAGTCTTCAAGAAATGATAAATTTTC  
 ACACAATCCTGTTTGACCAAACTCAGAGATCAATTAAGGCACAGCTTCAGAACTTTGTTAAAGAAGATCT  
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 AATGTTTCCGACACATAGCCCTCGATTATGTGCTTCAGATTAATGTTCTTCAATCAAAAAGGAGATCAGA  
 AATCCTAAAATCAATGTTGTCATTTATGTATGCCATTTGGCCTCTTTTCATCAAGGATATGATCTGTTT  
 AGTGAACCTGGACCTACATGAAGGATCTTGGTGACAGTTGGATCGACTGGTTGTGGATGCAGCAAAGG  
 AGAAAAGAGAAATGGAGCAAAAACATCCACCATTCAACAAAAGGATTTCTCCAGTGATGATTCTAAGTT  
 AGAATATAACGTAGATGCTGCAATGGCATAGTTATGGAAGGATATCTGTTCAAACGAGCCAGCAATGCC  
 TTCAAACCTTGGAACAGGCGCTGGTTTTCAATACAGAATAATCAGTTGGTTTACCAGAAAAAATTTAAGG  
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 ATTCTGCTTTGAGGTGGTCTCGCCAACAAAAGTTGCATGCTCCAGGCAGATTCGAAAAGCTGCGCCAG  
 CGATGGATTAAGGCTGTTGACACCAGTATTGCTACTGCTTATAGAGAGAAGGGTGATGAATCAGAGAAGC  
 TGGATAAGAAATCATCTCCATCCACAGGAAGCCTAGATTCTGAAAATGAGTCCAAAGAGAAATTTTGAA  
 AGGAGAAAAGTGCCTTCAGCGGGTCCAGTGTATCCCTGGCAATGCCAGCTGTTGTGACTGTGGCCTGGCA  
 GATCCACGGTGGGCCAGCATCAACCTGGGCATCACCTTGTGATCGAGTGTCCGGAATTCACCGGAGCC  
 TTGGGGTTCATTTTTCAAAGTACGATCTTTAACTTTAGACACCTGGGAGCCAGAATTTTTAAAGCTTAT  
 GTGTGAGTTGGGGAATGATGTTATAAATCGAGTTTATGAAGCTAATGTGGAAAAAATGGGAATAAAGAAA  
 CCCCAACCAGGACAAAGACAGGAGAAGGAGGCATATATCAGAGCAAAATATGTGGAGAGGAAATTTGTGG  
 AATAATATTCTATATCATTATCACCTCCTGAGCAGCAAAAAAGTTTGTCTCTAAAAGTTCTGAAGAAAA  
 GAGGCTGAGCATTCTAAATTTGGGCCAGGGACCAAGTCAGAGCATCTGCCAAAGTTCAGTCAGAAGT  
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 GTTTATATGAGCCTGAAGGAGAAAGGCAAGATTCTTCTATGTTTCTTGACTCGAAACATCTTAATCCAGG  
 ACTTCAGCTTTATAGGGCGTCATATGAAAAAACCTTCCTAAAATGGCTGAGGCTTTGGCTCATGGTGCA  
 GACGTGAACCTGGGCCAATTCAGAGGAAAACAAAGCAGCGCCACTTATTCAGGCTGTATTAGGGGGCTCTT  
 TGGTGACGTGTGAGTTCCCTCCTACAGAATGGTGCTAATGTCAACCAAAAGAGATGTCCAAGGGCGGGGACC  
 ATTGCAACCATGCCACCGTCTTAGGGCACACAGGGCAGGTATGTTTATTCTAAAACGAGGTGCCAATCAA  
 CATGCCACTGATGAAGAAGGAAAGACCCTTTGAGCATAGCTGTGGAAGCAGCCAATGCTGATATAGTCA  
 CCTTGTACGTTTAGCAAGAATGAATGAAGAGATGCGGGAATCAGAAGGACTTTATGGACAGCCAGGTGA  
 TGAAACTTATCAGGACATATTTCTGATTTTTCCCAAATGGCATCCAATAATCCAGAGAACTAAATCGT  
 TTCCAGCAAGATTCACAGAAATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209171 protein sequence  
Red=Cloning site Green=Tags(s)

MKMTVDFEECLKDSPRFRAALEEVEGDVAEELKLDKLVKLCIAMIDTGKAFVANKQFMNGIRDLAQYS  
SNDAVVETSLTKFSDSLQEMINFHTILFDQTQRSIKAQLQNFVKEDLRKFKDAKKQFEKVSEEKENALVK  
NAQVQRNKQHEVEEATNILTATRKCFRHIALDYVLQINVLQSKRRSEILKSMLSFMYAHLAFFHQGYDLF  
SELGPYMKDLGAQLDRLVVDAAKEKREMEQKHSTIQKDFSSDDSKLEYNVDAANGIVMEGYLFRASNA  
FKTWNRRWFSIQNNQLVYQKFKDNPTVVVEDLRLCTVKHCEDIERRFCFEVVSPTKSCMLQADSEKLRQ  
AWIKAVQTSIATAYREKGESEKLDKKSSPSTGSLDSGNESEKLLKGESALQRVQCIPGNASCCDCGLA  
DPRWASINLGITLCIECSGIHRSLGVHFSKVRSLDWTWPELLKLMCELGNDVINRVYEANVEKMGIKK  
PQPGQRQEKEAYIRAKYVERKFVDKYSISLSPPEQQKFFVSKSSEEKRLSISKFGPGDQVRASAQSSVRS  
NDSEIQQSSDDGRESLPSTVSANSLYEPEGERQDSSMFLDSKHLNPGQLYRASYEKNLPKMAEALAHGA  
DYNWANSEENKATPLIQAVLGGSLVTCEFLQNGANVNQRDVQGRGPLHHATVLGHTGQVCLFLKRGANQ  
HATDEEGKPLSIAVEAANADIVTLLRLARMNEEMRESEGLYGPQDETYQDIFRDFSQMASNNPEKLN  
FQQDSQKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6218\\_e03.zip](https://cdn.origene.com/chromatograms/mk6218_e03.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_012287

**ORF Size:** 2334 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\\_012287.3](#), [NP\\_036419.2](#)

**RefSeq Size:** 7187 bp

**RefSeq ORF:** 2337 bp

**Locus ID:** 23527

**UniProt ID:** [Q15057](#)

**Cytogenetics:** 3q29

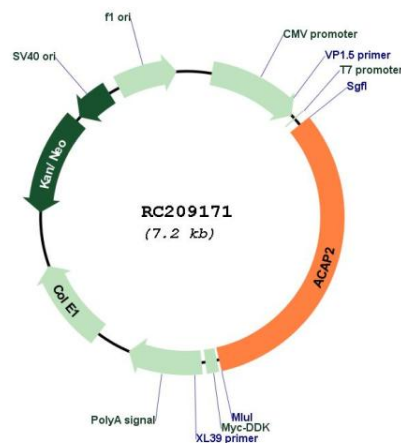
**Domains:** ArfGap, PH, ANK

**Protein Pathways:** Endocytosis

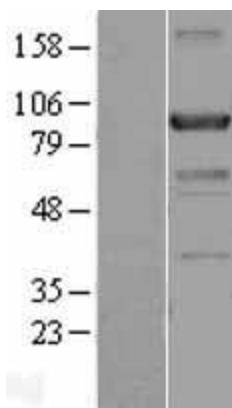
**MW:** 88.1 kDa

**Gene Summary:** GTPase-activating protein (GAP) for ADP ribosylation factor 6 (ARF6).[UniProtKB/Swiss-Prot Function]

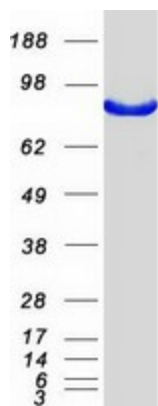
### Product images:



Circular map for RC209171



Western blot validation of overexpression lysate (Cat# [LY415840]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209171 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACAP2 protein (Cat# [TP309171]). The protein was produced from HEK293T cells transfected with ACAP2 cDNA clone (Cat# RC209171) using MegaTran 2.0 (Cat# [TT210002]).