

Product datasheet for **RR202961**

Acap2 (NM_001034006) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acap2 (NM_001034006) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acap2
Synonyms:	Centb2; cnt-b2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR202961 representing NM_001034006
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGATGACGGTGGATTTTCGAGGAGTGTCTGAAGGACTCGCCCGTTTCAGGGCTGCTTTGGAAGAAG
 TAGAAGGAGATGTGGCTGAGCTGGAAGTAAACTGGACAAGCTGGTAAAACCTTTGTATCGCGATGATTGA
 TACCGGCAAAGCCTTTTGTGCCGCAAATAAACAGTTCATGAATGGGATCCGAGACCTGGCCCACTATTCT
 AGCAATGACGCTGTGGTTGAGACGAGTTTGACCAAGTTTTCTGACAGTCTTCAGGAAATGATCAATTTCC
 ACACAATCTGTTTGACCAAACTCAGAGATCAATTAAGGCCAGCTTCAGAACTTTGTCAAAGAAGATCT
 TAGAAAATCAAAGATGCCAAGAAACAATTTGAAAAAGTCAGTGAAGAAAAGGAAAACGCTCTAGTAAAA
 AACGCCAAAGTCAAAGAAACAAGCAGCAGGTTGAAGAGGCTGCAAACATTCTCACGCCACGCGGA
 AGTGCTCCGGCAGATAGCGCTCGACTATGTCCTGCAGATTAACGTGCTCAATCAAAAAGGAGATCGGA
 AATCCTGAAATCAATGCTCCTCATGTATGCACATCTGGCCTTCTCCATCAAGGGTATGACCTGTT
 AGTGAGCTGGGCCCTACATGAAAGATCTTGGCGCACAGTTGGATCGACTGGTTGTGGATGCAGCAAAGG
 AGAAAAGAGAAATGGAGCAAAAACATTCTACGATCCAGCAGAAGGATTTCTCCAGTGATGATTCCAAGT
 AGAGTAAACGTAGACGCTGCAAACGGCATTGTATGGAAGGGTATCTGTTCAAACGAGCCAGCAACGCC
 TTCAAACGTTGGAACAGACGCTGGTTCTCCATACAGAACAATCAGCTGGTTTACCAGAAAAAGTTTAAAG
 ACAGCCCCACTGTGGTGGTGAAGACCTCAGGCTCTGCACAGTGAAGCACTGTGAAGACATCGAGCGACG
 GTTCTGCTTTGAGGTCGTCTCTCCACAAAAAGTTGCATGCTCCAAGCAGATCCGAAAAGCTTCGCCAG
 GCCTGGATTAAGGCTGTTGACAGCAGTATTGCAACTGCTTACAGAGAGAAAAGCGATGAATCAGAGAAA
 TGGATAAGAAATCGTCTCCATCGACAGGAAGCCTAGATTTCTGGAAGTGAAGTCTAAAGAGAAATTAAGT
 AGGAGAAAAGTGCCTGCAGCGTGTGCAGTGTATCCCTGGCAACACCAGCTGCTGCCACTGTGGTCTCGCA
 GACCCCGCTGGGCCAGCATCAACCTGGGCATTACCTTGTGATTGAGTGCCTGGGATTCATCGGAGTC
 TCGGGTTTCAATTTTCGAAAGTGAAGTCTTTAACTTTAGACACTTGGGAGCCTGAGCTCTTAAAGCTTAT
 GTGTGAAGTGGGAACGATGTTATAAATCGTGTATGAAGCTAAACTGGAAAAATGGGAGTAAAGAAA
 CCACAGCCAGGACAAAGACAGGAGAAGGAGGCATATCAGAGCAAAATATGTGGAGAGGAAATTCGTGG
 ATAAATACTCTACATTGCTGTACCTTCCGAGCAGGAGAAAAGGATCATCTCAAGAGCTGTGAGGACCA
 GAGACTGAGCCACACCAGAGTGTCTGTCCACACCCAGTCAAAGTAATGACAGTGGGATCCAGCAATGC
 TCTGATGATGGACGGGAGTCTTTACCTTCCACCGTGTGAGCAATAGCTTATACGAGCCGAGGAGAAA
 GGCAAGAATCTTCTGTGTTTCTCGACTCTAAACATCTTAAATCCAGGACTTCAGCTTTATAGGGCTTCGTA
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 gaaaaccaagcaaccactcattcaggctgtattagggggctctttggtgacatgtgagttcctgtttgc
 agaatggtgctaatgtgaaccaagagatgtccaagggcggggaccgctgcaccacgccaccgcttagg
 acacacagggcaggtatgtttattcctaaagcaggtgccaatcaacatgccactgatgaagaggggaag
 gacctctgagtatagctgtggaagcagccaatgctgacatagtaacgctgttacgcttagcaagaatga
 atgaggaatgCGGGAATCCGAAGGACTTTATGGACAGCCAGGTGATGAACTTACCAGGATATCTCCG
 TGATTTTCTCAAATGGCATCCAATAATCCAGAGAACTCAATCGTTTCCAGCAAGATTCACAGAAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202961 representing NM_001034006
 Red=Cloning site Green=Tags(s)

MKMTVDFEECLKDSPRFRAALEEVEGDVAEELKLDKLVKLCIAMIDTGKAFCAANKQFMNGIRDLAQYS
 SNDAVVETSLTKFSDSLQEMINFHTILFDQTQRSIKAQLQNFVKEDLRKFKDAKKQFEKVSEEKENALVK
 NAQVQRNKQHEVEEAANILTATRKCFRHIADYVLQINVLQSKRRSEILKSMLSFMYAHLAFFHQGYDLF
 SELGPYMKDLGAQLDRLVVDAAKEKREMEQKHSTIQQKDFSSDDSKLEYNVDAANGIVMEGYLFRASNA
 FKTWNRWF SIQNNQLVYQKFKDPTVVVEDLRLCTVKHCEDIERRFCFEVVSPTKSCMLQADSEKLRQ
 AWIKAVQTSIATAYREKGDSEKLDKKSSPSTGSLDSGSESKEKLLKGESALQRVQCIPGNTSCDCGLA
 DPRWASINLGITLCIECSGIHRSLGVHFSKVRSLTLDTWEPELLKLMCELGNDVINRVYEAKLEKMGVKK
 PQPGQRQEKEAYIRAKYVERKFVDKYSTLLSPSEQEKRIISKSCEDQRLSHTRVSVHTPVKSNDSGIQQC
 SDDGRESLPSTVSANSLYEPEGERQESSVFLDSKHLNPGQLYRASYEKNLPKMAEALAHGADVNWANS
 ENQATPLIQAVLGGSLVTCFLLQNGANVNQRDVQGRGPLHATVLGHTGQVCLFLKRGANQHATDEEGK
 DPLSIAVEAANADIVTLLRLARMNEEMRESEGLYGQPGDETYQDIFRDFSQMASNPEKLNRFQQDSQKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001034006

ORF Size: 2310 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_001034006.2](#), [NP_001029178.1](#)

RefSeq Size: 3579 bp

RefSeq ORF: 2313 bp

Locus ID: 619382

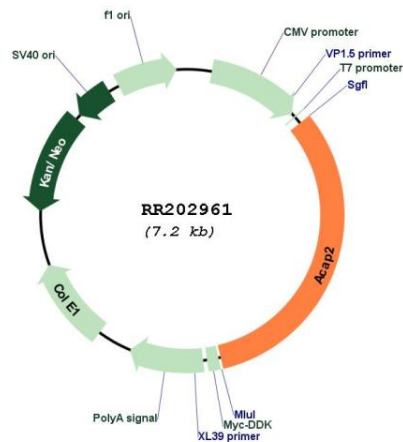
UniProt ID: [Q5FVC7](#)

Cytogenetics: 11q22

MW: 87.2 kDa

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

Product images:



Circular map for RR202961