

## Product datasheet for **SC113495**

### **Centaurin alpha 2 (ADAP2) (NM\_018404) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Centaurin alpha 2 (ADAP2) (NM_018404) Human Untagged Clone
Tag:	Tag Free
Symbol:	Centaurin alpha 2
Synonyms:	cent-b; CENTA2; HSA272195
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113495 sequence for NM_018404 edited (data generated by NextGen Sequencing)

```
ATGGGCGATCGCGAGCGCAACAAGAAGCGGCTGCTGGAGTCTGCTCGGGCGCCGGACACA
GGCAACGCGCACTGCGCCGACTGCGGGGCGGCAGATCCCGACTGGCCTTTACAAGCTG
GGGATCTTCATCTGTCTCAACTGCTGCGGCGTCCACCGTAACTTCCCTGACATCAGCAGA
GTAAATCTGTGCGACTTGACTTCTGGGACGACAGTATTGTGGAGTTTATGATCCACAAT
GGAAACCTCCGTGTGAAGGCCAAGTTTGAAGCCAGAGTCCAGCTTTCTACTACATCCCC
CAGGCCAACGACTGCCTGGTCTTAAAGGAACAATGGATTTCGAGCTAAGTATGAGAGACGG
GAATTTATGGCTGATGGGAAACCATCTCGCTCCAGGTAACCGAGAAGGATTCTGTGG
AAGCGAGGAAGGGACAACCTCACAGTTTCTGAGAAGGAAGTTTGTACTTCTGGCAAGAGAA
GGCCTCCTGAAGTACTTCACAAAGGAACAGGGTAAAAGCCCCAAAGCTGTCATCAGCATT
AAGGACTTGAATGCCACCTTCCAGACAGAGAAGATAGGGCACCCCATGGGCTGCAGATC
ACCTACAGGAGAGATGGCCACACCAGGAACCTGTTTGTGTATCATGAAAGTGGGAAGGAG
ATAGTGGACTGGTTCAATGCCCTCCGTGCGACCCGCTGCGAGTACCTAAAAATGGCCTTT
CCTGAACCTCCAGAGTCTGAGCTCGTGCCATTCTCACCAGGAACCTCAAAACAAGGC
TTCATGGAAAAGACTGGGCCAAAGCAGAAAAGAACCTTTCAAGAAAAGGTGGTTCGCCCTG
GATTGCCATGAGCGGAGGCTGCTCTATTACAAGAACCCTGGATGCCTTCGAGCAGGGC
CAGGTTTTTCTTGGGAACAAGGAGCAGGGATATGAAGCCTACGAAGACCTGCCAAAGGGC
ATCCGAGGAAATCGCTGGAAAGCCGGACTCACCATTGTCAACCCAGAGCGGAGATTTGTC
CTCACTTGCCCCAGTGAGAAGGAACAGCAGGAATGGCTGAAAAGTTTGCGGGGTGTCCTG
TCCAGCCCTTGACGCCCTCAACCGGCTTACTGCATCAACAGAGAGTGGCCGAGCAGC
AGGTGA
```

Clone variation with respect to NM\_018404.2



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018404 unedited  
 GCGTTCAAATTTGTAAACGACTCATATAGGCGGCCGNAATTCGCACGAGGTCCACAGT  
 CTCGTAGCTACCAAGTGACAGGCCACGATTTGATCTCAGGCCAGTGTGTTAAACTCCAAT  
 TTGCGTGCTCCTGTCCTCCCGCGCGTCCGGCGGAGCTCGGGGCCGACTGGACCTGCCG  
 AGGGAGGGGGCGGACAGTCTGACGGTGCGGGGCGGGCTGGCGGCTGCCAGGCCTGGT  
 GAGGCGCCGCGGGCCGGTCCCTCTCCACCTGCCGGGCGGAGCGCACGGGCCATGGGCTGA  
 GCCCGCTGAGCCCGCGGGCCGCCATGGGCGATCGCGAGCGCAACAAGAAGCGGCTGC  
 TGGAGCTGCTGCGGGCGCCGACACAGGCAACGCGCACTGCGCCGACTGCGGGGCGGAG  
 ATCCCGACTGGGCTCTTACAAGCTGGGATCTTCATCTGTCTCAACTGTGCGGCTCC  
 ACCGTAACCTCCCTGACATCAGCAGAGTTAAATCTGTGCGACTTGACTTCTGGGACGACA  
 GTATTGTGGAGTTTATGATCCACAATGGANACCTCCGTGTGAAGGCCAAGTTCGAAGCCA  
 GAGTCCCAGCTTTCTACTACATCCCCAGGCCAACGACTGCCTGGGTCTAAAGGAAACAT  
 GGATTCGAGCTAAGTATGAGAGACGGGAATTNNATGCTGATGGGAAACCATCTTGCTCC  
 CNAGTACCAGAAAGGATCCTGTGAAGCCGGGAAAGGGGACACTCACAGNTTCTGAGAAG  
 GAAGTTGACTTTCTGGCAAGAGAAGCCNCTGAAGTACTTCACAAGGGAACAGGTAAA  
 GCCCAAAGCTGTCATCAGCATTTAGGACTTGAATGCACCTTCCAGACAGGAGAAGAA  
 GGGGACACCCCATGGGCTGCAGATCACCTACAGGAAAAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_018404 unedited  
 TGACCGCGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTACAAAAATGCCACTT  
 GCATGATGCTGTGGTGCCTTTTCATTGCAATGCCTCCATTTTCAGATGTGAGAAAGTTCT  
 GGGCCTGTAGGGCATTTCAGCCTAGGTGTGTATGGGGAGGAGGGATAGATGTTTCATC  
 TATGCACCAGATCCTCAGATCCCCGAGGTGGGTTGCGGGGAAGGCCAGGGAGCTGATGG  
 ATAAAGCCACAGCTTCAGTCCTGGCAGAGTTCAGTCCAGGAATGGCTGCTGACTGCGGG  
 GCACTGATGGTGGGCAGCCAGGGCCGAGGTGCAAACCTTCTCCACAAGGAGTTCAGGT  
 GTTCAGTGGCAGCCAGTTCCTCAGTTAATGGGTACCTGCTGCTGCGGCCACTCTCTGTT  
 GATGCAGTAAGCCGGTTGAGGGGCTCAAGGGGCTGGACAGGACACCCCGCAAATTTCC  
 AGCCATTCCTGCTGTTCCCTTCTCACTGGGGCAAGTGAGGACAAATCTCCGCTCTGGGGTG  
 ACAATGGTGAGTCCGGCTTCCAGCGATTTCTCGGATGCCCTTGGGCAGGTCTTCGTAG  
 GCTTCATATCCCTGCTCCTTGTTCCTCAAGACAAACCTGGCCCTGCTCGAAGGCATCCAGT  
 GGGTTCTTGCAATAGAGCAGCCTCCGCTCATGGCACTCCAAGGCGAACCACCTTTTCTTG  
 AAAGTTCTTTCTGCCTTGGCCAGCCTTTTCCATGAACCTGCTTGAAGCAGCTCCTGG  
 CGGAGGAACGCACGACCCATACTCTGTGAGTCAAGAAAGCCATTTCTAGGACTGCCACC  
 GGCTGCTGGAGGATTGAACAATCACTATCCCTTCCACTTTCTGAACCAACCAGCCCT  
 GGGTGGCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_018404

**Insert Size:**

1770 bp

**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).

**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\\_018404.1](#), [NP\\_060874.1](#)

**RefSeq Size:** 2578 bp

**RefSeq ORF:** 1146 bp

**Locus ID:** 55803

**UniProt ID:** [Q9NPF8](#)

**Cytogenetics:** 17q11.2

**Domains:** ArfGap, PH

**Gene Summary:** The protein encoded by this gene binds beta-tubulin and increases the stability of microtubules. The encoded protein can also translocate to the cell membrane and bind phosphatidylinositol 3,4,5-trisphosphate (PtdInsP3) and inositol 1,3,4,5-tetrakisphosphate (InsP4). In addition, this protein is a GTPase-activating protein for ADP ribosylation factor 6 and may be able to block the entry of some RNA viruses. [provided by RefSeq, Oct 2016]  
Transcript Variant: This variant (2) uses an alternate in-frame splice junction compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.