

## Product datasheet for **SC333191**

### CDK5RAP2 (NM\_001272039) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CDK5RAP2 (NM\_001272039) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CDK5RAP2  
**Synonyms:** C48; Cep215; MCPH3  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC333191 representing NM\_001272039.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

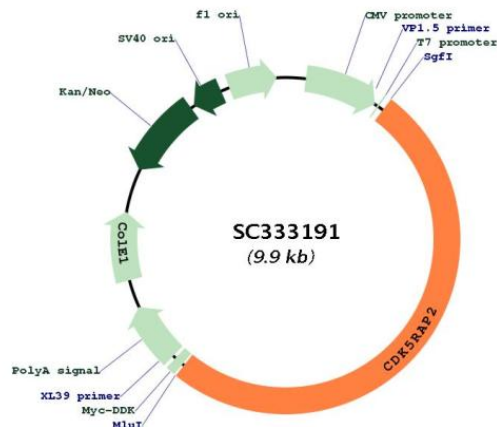
```
ATGATGGACTTGGTGTGGAAAGAGGACGTACCGTCCCTGGGACGCTCAGCGGCTGCAGTGGCCTTGTT
CCCAGTGTACCAGATGACCTGGATGGCATCAACCCCAATGCTGGGTTGGGAAATGGTCTGCTCCCAAAT
GTGTCAGAAGAACAGTGTCTCCACCAGAGCACGGAACATGAAGGACTTTGAAAATCAAATCACTGAA
TTGAAGAAAGAAAACCTTTAACCTAAAGCTCCGCATCTATTTCTTGAGGAAAGAATGCAACAGGAATTT
CATGGCCCCACTGAACATATCTACAAAATAACATTGAGCTCAAGGTGGAAGTAGAAAGTCTGAAGCGG
GAACTCCAGGAGAGAGAGCAGCTGCTCATCAAAGCCTCAAAGCAGTTGAGAGCTTAGCTGAAGCAGGT
GGCTCTGAAATCCAGCGGTGAAAGAAGATGCTCGAAAGAAGGTGCAGCAGGTGGAAGATCTCCTAACT
AAAAGAATACTCCTTTTGGAAAAGGATGTGACAGCCGCCAGGCAGAAGTGGAAAAGGCCTTTGCAGGG
ACAGAGACGGAGAAGGCTCTTCGGTTGCGTTTGGAAAAGCAAGCTTTCAGAGATGAAGAAGATGCACGAG
GGGACTTGGCGATGGCTCTGGTCTGGATGAGAAAGACAGACTGATTGAGGAGTTGAAGCTGTCTTTG
AAGAGCAAAGAAGCTTTAATTCAGTGCCTTAAAGAGGAGAAAATCTCAGATGGCATGTCTGTATGAGAA
GTGTCTACTGGAGAGCTCCGAGGACTTTGTGCTGCTCCAAGGGAAGAAAAGGAGAGAGAAAAGTGGGCT
GCACAAATGGAGCATCAGAAGGAGAGAAAACAGCTTTGAAGAGAGGATCCAGGCACCTTGAAGAGGACCTG
AGAGAGAAGGAAAAGAGAAATGCTACAGAGAAGAAAATAGTCTAAAGAGGGATAAAGCCATTCAGGGT
TTAACCATGGCATTAAAAATCAAAGGAAAAAAGGTTGAAGAACTTAACTCTGAAATGAAAAGCTCAGT
GCTGCCTTTGCTAAAGCCAGAGAGGCCCTACAGAAAGCACAGACCCAGGAATTTAGGGGCTGAAGAC
TATGAGACTGCTCTATCAGGAAAGGAAGCCCTTTCGGCTGCGCTGCGCTCACAAAACCTACCAAGAGT
ACAGAGAACCACAGACTGCGTAGAAGCATTAAAGAGATCACCCAGGAGCTGAGTGACTTGCAGCAGGAG
AGGAGAGACTGGAGAAGGACCTGGAGGAAGCCCATCGAGAGAAGAGCAAAGGAGACTGCACCATCCGT
GATCTTAGAAATGAAGTTGAAAAATTACGCAATGAAGTGAATGAAAGAGAGAAAGCAATGAAAAATCGT
TACAAGAGTCTTCTGAGTGAAGCAATAAAAAATTGCACAATCAAGAGCAAGTGATCAAACATCTAACA
GAAAGTACCAATCAGAAGGACGTGTTGCTCAGAAATTCATGAAAAGATTTGGAAGTAATACAGCAG
AACTGCTATTTAATGGCTGCAGAGGATCTTGAGCTCAGGAGTGAAGGCTTAATAACAGAAAAGTGCCT
TCTCAACAGCCACCAGGCAGAAAACCATCTTCTAAGGAAAAGAAAACATCATCAGACTATGAAGAG
CTGATTCAGGTCTTAAAGAAAAGAGCAGGACATCTATACCCATCTGGTCAAATCTCTGCAGGAATCAGAC
AGTATCAACAACCTGCAGGCTGAGTTAAACAAGATTTTTGCCCTGCGGAAGCAACTGGAGCAGGATGTG
CTTTCATATCAGAATTTGCGGAAGACCTTGAGGAGCAGATCAGCGAAAATTCGGAGGCGGGAAGAATCA
TTTTCACTTTATAGTGATCAAACATCTTATCTAAGTATTTGCCTTGAAGAAAACAATCGGTTTCAAGTG
```



GAACATTTTTCTCAAGAAGAACTTAAGAAAAAGGTCAGTGACCTTATACAGCTAGTGAAGGAGCTGTAT  
 ACAGACAACCAGCACCTGAAGAAAACATTTTTGATCTCTCCTGCATGGGTTTCCAGGAAATGGGTTT  
 CCAGATAGACTTGCCTACAGAACAAACAGAGGAGGCTAAGAAGTCCCCTTCCCAATCCTAATAAAA  
 CCATCCCAGGTCATTAGGAAATATGTATCGTCTCCCTGCCACCCAGGAGGTGGTGACGCAGCTGCAGAGC  
 CAGATCTTGGAGCTGCAGGGGAGCTGAAGGAGTTTAAACTTGTAAAGCAACTTCACCAAAAGTTA  
 ATTTCTGGCTGAAGCAGTGATGGAGGGGAGGCCAACGCCGACAAAACGTTGCTGAATGCTCAGCCCCCT  
 GTGGGAGCAGCCTACCAGGACAGCCAGGAGAGCAGAAAGGAATTAACCACATCTTGTCTGGAGA  
 GACAAGGAAATGGACAGTGATCAGCAAAGAAGCTACGAGATTGACTCTGAGATTTGCCACCTGATGAC  
 CTTGCCAGCTTGCCATCATGCAAAGAAAATCCTGAAGATGTTCTGAGCCCAACTCAGTAGCTACTTAC  
 CTGAGTTCCAAGAGTCAGCCTTCTGCTAAAGTCAGTGTGATGGGACTGATCAGTCAGAGAGCATTAAAT  
 ACCTCAAATGAGACAGAACTACTAAAACAGAAAATCCATGACTTGGAACTGAGCTGGAAGGCTACCAG  
 AATTTCAATTTTCTCAGCTTCAAAGCACTCCAGTGCAGTGAAGCCATAATTACAGTTTTGTGTGGGACA  
 GAAGGGGCCAGGATGGCTTGAAGCAAGCCAAAGATGGTCTGATGGGGAAGAAATGACCTTTTCAAGT  
 TTGCCAACAGTGCATACGTGAAACACGTGAAAATCCTCGGTCCGCTGGCCCCAGAGATGATTGACAGC  
 AGGGTGTGGAGAACCTCAAACAGCAGCTGGAGGAACAGGAATACAAGCTGCAGAAGGAGCAGAATTTG  
 AACATGCAACTTTTTCAGTGAGATCCATAATCTGCAGAATAAGTTCAGAGATCTCTCACCTCCCAGATAC  
 GATTCATTAGTTCAGTCCCAAGCCAGGGAGCTCTCCCTTCAACGGCAGCAGATTAAAGATGGCCATGGC  
 ATCTGTGTCATCTCCCGTCAACACATGAACACCATGATTAAGGCATTTGAGGAGTTGCTGCAGGCCAGT  
 GATGTGGATTACTGTGTGGCCGAGGGTTTCCAGGAACAGCTGAATCAATGTGCTGAGCTGCTGGAGAAA  
 TTGGAAAAGCTATTTCTCAACGGAAAATCAGTTGGAGTGGAAATGAACACCCAGAATGAAGTGTGGAG  
 AGGATTGAGGAAGACAACCTAACCTACCAACATCTTCTGCCTGAATCTCCTGAGCCTTCAAGCCTCAT  
 GCGCTCTCTGATTATGAAACATCTGAAAAGTCTTCTTCTCACGAGACCAGAAGCAAGATAATGAGACA  
 GAGAAGACTTCAGTTATGGTGAACAGTTTTTCTCAAGACTTACTAATGGAACACATACAGGAAATCGA  
 ACTTTGAGAAAAGCGTTTGAAGAATCTATTAACAATAAGTGAAGCTACGGAAACAGTTGGAACGGCAA  
 GGATCTGAATTTGTTCAAGGTTCTACAAGCATTTTTGCTTCTGGTTCAGAGCTTCATAGTCTCTAACA  
 TCAGAAATTCATTTCTGAGGAAGCAGAACAGGCCCTCAATGCAATGCTCATTAAAGGATCCAGAGAT  
 AAACAGAAGGAGAATGACAAATTACGAGAGTCCCTCTCCAGGAAGACCGTGAGCCTGGAGCACCTTCAG  
 CGGGAGTATGCCAGCGTGAAGGAAGAAAATGAAAGGCTGCAGAAAAGAGGAGCAGGAGAGAGACAC  
 AACCCAGCAGCTGATCCAGGAGTCCGCTGCAGCGGCCAGGAGCTGAGCAGGGTGCAGGAGGAGGTGAAG  
 TTGAGGCAGCAGCTGCTCTCACAGAATGACAAGCTATTGCAGTCTCTCCGAGTGGAGCTGAAGGCGTAT  
 GAGAAGCTGGATGAAGAGCACAGGAGACTGAGAGAGGCGTCGGGAGAAGGCTGGAAGGGGCAGGATCCT  
 TTCAGGGACCTGCACAGCCTCCTGATGGAGATCCAGGCTCTGCGCTTGAACCTAGAAAGGAGCATCGAA  
 ACCAGCAGCACTCTGCAGAGCAGGCTCAAGGAACAGCTGGCAAGGGGGGAGAGAAGGCACAGGAAGGA  
 GCCCTCACTCTGGCTGTCCAAGCCGTGCCATCCCTGAGGTGCCCTTCAAGCCTGACAAAACAGTGGT  
 GACAAATATCCCATGGAAGTGATAATTCATTTGATCTGTTTATTCTCCCAGGAGTGCACCAAAAA  
 TCAGTTTCAGAGACTCCTCCACTCTCTGGGAATGACACGGACTCCCTCTCCTGCGACAGTGGCAGTTG  
 GCAACTAGCACTCCGTGTGTGTCCCGCTGGTCACTGGCCACCACCTGTGGGCCAGCAAGAATGGCCGC  
 CATGCTCCTGGGCTGATTGAGGACTATGAGGCCCTGCTCAAACAGATCAGCCAGGGACAGAGGCTCCTT  
 GCTGAAATGGACATTCAAACCCAAGAGGCTCCAGCTCCACAAGTCAAGAGCTGGGAACAAAGGGTCCA  
 CACCCAGCACCCTGAGCAAGTTTGTGAGCAGTGTGAGCACGGCCAAGCTGACCCTGGAAGAGGCTTAC  
 AGGCGGCTGAAGCTTCTCTGGAGAGTCTCACTCCCGAGGATGGCCAGTGGCCCTTCACTGTGAGCAG  
 ATTGGAGAAAATGAAGGCAGAGGTACCAAACTACATAAAAAATGTTTGAACAAGAAAAGAGTTGCAA  
 AACACCATGAAGCTTTTGCAGCTGAGCAAGCGCCAGGAAAAAGTCACTTTGATCAATTGGTCGTAACC  
 CACAAAATCCTTCGGAAGGCCAGAGGAAACCTGGAGCTTAGGCCCTGGGGAGCCCATCCAGGAACATGC  
 AGTCCCAGCAGACCAGGCTCC**TGA**

**Restriction Sites:**

Sgfl-Mlul

**Plasmid Map:**


**ACCN:** NM\_001272039

**Insert Size:** 4992 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\\_001272039.1](#)

**RefSeq Size:** 5552 bp

**RefSeq ORF:** 4992 bp

**Locus ID:** 55755

UniProt ID: [Q96SN8](#)

Cytogenetics: 9q33.2

MW: 189.6 kDa

**Gene Summary:** This gene encodes a regulator of CDK5 (cyclin-dependent kinase 5) activity. The protein encoded by this gene is localized to the centrosome and Golgi complex, interacts with CDK5R1 and pericentrin (PCNT), plays a role in centriole engagement and microtubule nucleation, and has been linked to primary microcephaly and Alzheimer's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]  
Transcript Variant: This variant (3) uses an alternate in-frame splice site and lacks three in-frame exons in the coding region, compared to variant 1. The encoded isoform (c) is shorter compared to isoform a.