

Product datasheet for **SC106128**

CDK5RAP2 (BC019577) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDK5RAP2 (BC019577) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDK5RAP2
Synonyms:	C48; CDK5 activator-binding protein C48; CDK5 regulatory subunit associated protein 2; centrosomal protein 215 kDa; Cep215; DKFZp686B1070; DKFZp686D1070; KIAA1633; MCPH3; OTTHUMP00000022800; OTTHUMP00000064031
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for BC019577, the custom clone sequence may differ by one or more nucleotides

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GATGGCGGCGTCTGTGGTTGAATTCCAGCGGCGCCAGAGTCTGAACAAGAGCTGGGGTGGAGGGG  
CGGGGACCTGGGAGCCCGCGGGTCTGCTATCGCGGGGGTACTAGTGGCGCCGCCACAGACACCAA  
CGCCGTCGCCACCTCTGTATCCATGATGGACTTGGTGTGGAAGAGGACGTCACCGTCCCTGGGACGCTC  
AGCGGCTGCAGTGGCCTTGTCCAGTGTACCAGATGACCTGGATGGCATCAACCCCAATGCTGGGTTGG  
GAAATGGTCTGCTCCCAATGTGTGAGAAGAAACAGTGTCTCCACCAGAGCACGGAACATGAAGGACTT  
TGAAAATCAAATCACTGAATTGAAGAAAGAAAACCTTAACTAAAGCTCCGCATCTATTTCTTGAGGAA  
AGAATGCAACAGGAATTCATGGCCCCACTGAACATATCTACAAAACAACTTGAAGCTCAAGGTGGAAG  
TAGAAAGTCTGAAGCGGAACTCCAGGAGAGAGCAGCTGCTCATCAAAGCCTCAAAGCAGTTGAGAG  
CTTAGCTGAAGCAGGTGGCTCTGAAATCCAGCGGGTGAAGAAGATGCTCGAAAGAAGGTGCAGCAGGTG  
GAAGATCTCCTAACTAAAAGAATACTCCTTTGGAAAAGGATGTGACAGCCGCCAGGCAGAACTGGAAA  
AGGCCTTTGCAGGGACAGAGACGGAAGGCTCTTCGGTTGCGTTTGGAAAGCAAGCTTTAGAGATGAA  
GAAGATGCACGAGGGGACTTGGCGATGGCTCTGGTCTGGATGAGAAAGACAGACTGATTGAGGAGTTG  
AAGCTGTCTTTGAAGAGCAAAGAAGCTTAAATTCAGTGCCTTAAAGAGGAGAAAATCTCAGATGGCATGTC  
CTGATGAGAATGTGTCTGAGAGCTCCGAGGACTTTGTGCTGCTCCAAGGGAAGAAAAGGAGAGAGA  
AACTGAGGCTGCACAAATGGAGCATCAGAAGGAGAGAAAACAGCTTCAAGAGAGGATCCAGGCACCTGAA  
GAGGACCTGAGAGAGAAGGAAAGAGAAAATTGCTACAGAGAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC019577 unedited GTTCAGAATAGTATACGACTTATATAGGCGGCCGCGAAATTCGCACGAGGGAAAGAGGCCGCGTCTGTGGTTGAATTCCAGCGGCGCCGAGAGTCTGAACAAGAGCTGGGGTGGAGGGGGCGGGACCTGGGGAGCCCGGGTTCGCTATCGCGGGGGTACTAGTGGCGCCGCCCCACAGACACCAACGCCGTCGCCACCTCTGTATCCATGATGGACTTGGTGTGGAAGAGGACGTCAACCGTCCCTGGGACGCTCAGCGGCTGCAGTGGCCTTGTCCCAAGTGTACCATGACCTGGATGGCATCAACCCCAATGCTGGGTTGGGAAATGGTCTGCTCCCAATGTGTGCAAGAAAACAGTGTCTCCACCAGAGCACGGAACATGAAGGACTTTGAAAATCAAATCACTGAATTGAAGAAAAGAAAACCTTAACTAAAGCTCCGCATCTATTTCTTGAGAAAAGATGCAACAGGAATTTTCAAGCCCACTGAACATATCTACAAAATAACATTGAGCTCAAGGTGGAAGTAGAAAGTCTGAAGCGGAACTCCAGGAGAGAGAGCAGCTGCTCATCAAAGCCTCCAAGCAGTTGAGAGCTTAGCTGAAGCAGGTGGCTCTGAAATCCAGCGGGTAAAAGAAGATGCTGAAAAGAAGGTGCAGCAGGTGGAAGATCTCTACTAAAAGAATACTCCTTTGGAAAAGATGTGACAGCCGCCAGCAGAACTGAAAAGCCTTTGCAGGNACAGAGACCGAGAAAGGCTCTCGGTTGCGTTTGGAAAGCAGCTTTCACAGATGAAGAAGTGCACGAGGGGGACTTNGCGATGGCTCTGGTCTGGATGAAAAGAAGACTGATTTGAGGAGTGAAGCTGTCTTGGAGCAAGAAGCTTTAATTCATGCCTAAG
Restriction Sites:	NotI-NotI
ACCN:	BC019577
Insert Size:	5500 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:	<ol style="list-style-type: none">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:	<u>BC019577.1, AAH19577.1</u>
RefSeq Size:	1104 bp
RefSeq ORF:	1104 bp
Locus ID:	55755
Cytogenetics:	9q33.2

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]