

## Product datasheet for **SC308864**

### CDK5RAP2 (NM\_018249) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDK5RAP2 (NM_018249) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDK5RAP2
Synonyms:	C48; Cep215; MCPH3
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018249, the custom clone sequence may differ by one or more nucleotides

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ATGATGGACTTGGTGTGGAAAGAGGACGTCACCGTCCCTGGGACGCTCAGCGGCTGCAGT
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 GCCCATCCAGGAACATGCAGTCCAGCAGACCAGGCTCCTGA

- Restriction Sites:** Please inquire
- ACCN:** NM\_018249
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_018249.4](#), [NP\\_060719.4](#)
- RefSeq Size:** 6230 bp
- RefSeq ORF:** 5682 bp
- Locus ID:** 55755
- UniProt ID:** [Q96SN8](#)
- 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]  
Transcript Variant: This variant (1) encodes the longest isoform (a).