

Product datasheet for **RG224233**

CDK5RAP2 (NM_001011649) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDK5RAP2 (NM_001011649) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDK5RAP2
Synonyms:	C48; Cep215; MCPH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224233 representing NM_001011649 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGACTTGGTGTGGAAAGAGGACGTACCGTCCCTGGGACGCTCAGCGGCTGCAGTGGCCTTGTTCCAGTGTACCAGATGACCTGGATGGCATCAACCCCAATGCTGGGTGGGAAATGGTCTGCTCCCAAATGTGTCAGAAGAAACAGTGTCTCCACCAGAGCACGGAACATGAAGGACTTTGAAAATCAAATCACTGAATTGAAGAAAGAAAACTTAACTAAAGCTCCGCATCTATTTCTTGAGGAAAGAATGCAACAGGAATTCATGGCCCACTGAACATATCTACAAAATAACATTGAGCTCAAGGTGGAAGTAGAAAGCTGAAGCGGGAACCCAGGAGAGAGAGAGCTGCTCATCAAAGCCTCCAAGCAGTTGAGAGCTTAGCTGAAGCAGGTGGCTCTGAAATCCAGCGGGTAAAAGAAGATGCTCGAAAAGAGGTGACGAGGTGGAAGATCTCTAACTAAAAGAACTACTCCTTTTGGAAAAGGATGTGACAGCCGCCAGGCAGAACTGGAAAAGGCCTTTCAGGGACAGAGACGGAGAAGGCTCTTCGGTTGCGTTTGGAAAGCAAGCTTTCAGAGATGAAGAAGATGCACGAGGGGACTTGGCGATGGCTCTGGTCTGGATGAGAAAGACAGACTGATTGAGGAGTTGAAGCTGTCTTGAAGAGCAAAGAAGCTTTAATTCAGTGCCTTAAAGAGGAGAAATCTCAGATGGCATGTCTGATGAGAATGTGTCTGAGAGTCCGAGGACTTTGTGCTGCTCAAAGGGAAGAAAAGGAGAGAGAAAAGTGAAGGCTGCACAAATGGAGCATCAGAAGGAGAGAAACAGCTTTGAAGAGAGGATCCAGGCATTTGAAGAGGACCTGAGAGAGAAGGAAAAGAAAATTGCTACAGAGAAGAAAAATAGTCTAAAGAGGGATAAAGCCATTCAGGGTTAAACCATGGCATTAAAATCAAAGGAAAAAAGGTTGAAGAAGTAACTCTGAAATTGAAAAGTCAAGTGTGCTTTGCTAAAGCCAGAGAGGCCCTACAGAAAGCACAGACCCAGGAATTCAGGGGTCTGAAGACTATGAGACTGCTCTATCAGGAAAGGAAGCCCTTTCGGCTGCGCTGCGCTCACAAAACCTCACCAAGAGTACAGAGAACCACAGACTGCGTAGAAGCATTAAAGAAGATCACCCAGGAGCTGAGTACTTGCAGCAGGAGAGGGAGAGACTGGAGAAGGACCTGGAGGAAGCCCATCGAGAGAAGAGCAAAGGAGACTGCACCATCCGTGATCTTAGAAATGAAGTTGAAAAATTACGCAATGAAGTGAATGAAAGAGAGAAAAGCAATGAAAATCGTTACAAGAGTCTTCTGAGTGAAGCAATAAAAAATTGCACAATCAAGAGCAAGTATCAAACATCTAACAGAAAGTACCAATCAGAAGGAC



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 TAGGCCTGGGGGAGCCATCCAGGAACATGCAGTCCCAGCAGACCAGGCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224233 representing NM_001011649
 Red=Cloning site Green=Tags(s)

MMDLVLEEDVTPVPGTSLGCSGLVPSVPPDLLDGINPNAGLGNLLPNVSEETVSPTRARNMKDFENQITEL
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 KKLFEQEKKLQNTMKLLQLSKRQEKVIFDQLVTHKILRKARGNLELRPGGAHPGTCSPSRPGS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ORF Size:	5442 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:	<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:	NM_001011649.3
RefSeq Size:	5993 bp
RefSeq ORF:	5445 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]