

Product datasheet for MC224952

Cdk5rap2 (NM_145990) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk5rap2 (NM_145990) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cdk5rap2
Synonyms:	2900018K03Rik; an; mKIAA1633
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224952 representing NM_145990 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTCGGGGATGGAAGAGGAAGGCCCTGCCTGGGACCCTCAGCGGTTGCAGTGGCCTTCACCTG
TTCTGCCAAGTGACCTGGATGTCATCAGTGACACTTCTGGCTTGGGAAATGGAGTGTCCCAAGCATGTC
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CCACCGAGCACATCTACAAGACGAACATTGAACTCAAGGTGGAAGTGGAAAGTCTGAAGCGCAGCTCCA
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CTTCAGAAATCCAATGAAAAAGATTTGGAAGCAATACAGCAGAAGTCTATTTAATGACTGCAGAGGAGC



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TCAAGTTTGGGAGCGATGGCTTAATAACAGAAAAGTGTCTCAGCAGTCACCAGACAGCAAACCTCATCTT
 CTCCAAGGAAAAGCAACAATCAGAGTATGAAGGGCTGACTGGGGACTTAAAAGCAGAACAGAATCTAT
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 AGCAGGGTGCAGGAAGAGGCGAAGTCAAGACAGCAGCTGCTCTCACAGAAGGACAAGCTGCTTCAAGTCCC
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 GCCCTACTAGCATGCCCTGCCTGGTTGCTGGCCACCACATGTGGGCCAGCAAGAGTGGCCACCATATGCT
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 CTCTGAGCAAGTTTCTTCCAGTATGAACACAGCCAAGCTGGTCTGAAAAAGCATCCAGGTTGCTGAA

GCTCTTCTGGAGGGTCTCAGTCCCCACCAACGGCCAGTGTTCCTTCACTGTGAGCAGATTGGAGAAATG
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TATTGCAGCAGAGCAAGCACCAGGAGAAAGTCATCTTTGATCAGTTGGTCATACCCACCAAGTCCTTCG
GAAGGCCAGGGGAAACCTGGAGCTCAGGCCTGGGGCCACCCGTCCAGGAGCATCCAGTCCCAGCAGACCG
GGCTCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_145990
Insert Size:	5469 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:	NM_145990.4 , NP_666102.2
RefSeq Size:	11840 bp
RefSeq ORF:	5469 bp
Locus ID:	214444
UniProt ID:	Q8K389
Cytogenetics:	4 C2

Gene Summary:

Potential regulator of CDK5 activity via its interaction with CDK5R1. Negative regulator of centriole disengagement (licensing) which maintains centriole engagement and cohesion (PubMed:20627074). Involved in regulation of mitotic spindle orientation (PubMed:20460369). Plays a role in the spindle checkpoint activation by acting as a transcriptional regulator of both BUBR1 and MAD2 promoter. Required for the recruitment of AKAP9 to centrosomes (By similarity). Plays a role in neurogenesis (PubMed:20471352). Contrary to higher mammalian orthologs, including human, chimpanzee, bovine and dog, does not interact with EB1/MAPRE1, therefore its function in the regulation of microtubule dynamics is unclear (PubMed:19553473).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.