

## Product datasheet for **RC238992**

### CDK5RAP1 (NM\_001278167) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDK5RAP1 (NM_001278167) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDK5RAP1
Synonyms:	C20orf34; C42; CGI-05; HSPC167
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238992 representing NM\_001278167  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACCCTTTACAGTGTCTCCAAGTGCAGAGGTCTCTGGGGTGGGACCATTGGCCTCTGTGTCTT  
 GGCTGTCGCTGAGGATGTGCAGGCACACAGCAGTCTCTAGTACCATGTGTCCAGTCCAGAGAGGCA  
 GGAGGATGGAGCTCGGAAGGATTCAGCTCCAGGCTGGCTGCTGGACCGACTTTTCAACATTTTTAAAA  
 AGTGCCTCAGCTCCTCAGGAGAAGCTGTCTTCAAGTGAAGACCCACCTCCCTATCTCATGATGGATG  
 AACTTCTTGAAGGCAGAGAAAAGTCTACCTCGAGACCTATGGCTGCCAGATGAATGTGAATGACACAGA  
 GATAGCCTGGTCCATCTTACAGAAGAGTGGCTACCTGCGGACCAGTAACCTCCAAGAGGCAGATGTGATT  
 CTCCTTGCACATGCTCTATCAGGGAGAAGGCTGAGCAGACCATCTGGAACCGTTTACATCAGCTTAAAG  
 CCTTGAAGACAAGGCGGCCCGCTCCCGGGTTCCTCTGAGGATTGGAATCTAGGCTGCATGGCTGAGAG  
 GTTGAAGGAGGAGATTCTCAACAGAGAGAAAATGGTAGATATTTGGCTGGTCTGATGCCTACCGGGAC  
 CTTCCCGGCTGCTGGCTGTTGCTGAGTCGGGCCAGCAAGCTGCCAACGTGCTGCTCTCTGGACGAGA  
 CCTATGCTGATGTCATGCCAGTCCAGACAAGCGCCAGTGCCACGTCTGCCTTTGTGTCAATCATGCGAGG  
 CTGTGACAACATGTGTAGCTACTGCATTGTTCTTTACCCGGGGCAGGGAGAGGAGTCCGCCTATTGCC  
 TCCATTCTAGAGGAAGTGAAGAAGCTTTCTGAGCAGGGGCTGAAAGAAGTACACTTCTTGGTCAGAATG  
 TTAATAGTTTTTCGGGACAATTCGGAGGTCCAGTTCAACAGTGCAGTGCCTACCAATCTCAGTCGTGGCTT  
 TACCACCAACTATAAAACCAAGCAAGGAGGACTTCGTTTTGCTCATCTTCTGGATCAGGTCTCCAGAGTA  
 GATCCTGAAATGAGGATCCGTTTTACCTCTCCCAACCAAGGATTTTCTGATGAGGTTCTGCAGCTGA  
 TTCATGAGAGAGATAACATCTGTAACAGATCCACCTGCCAGCCAGAGTGAAGCAGCCGCTGTGTTGGA  
 GGCCATGCGGAGGGGATATTCAAGAGAAGCTTATGTGGAGTTAGTTCACCATATTAGAGAATCTATTCCA  
 GGTGTGAGCCTCAGCAGGATTTTATTGCTGGCTTTTGTGGTGAAGCAGGGAAGATCACGTCCAGACAG  
 TCTCTTTGCTCCGGGAAGTTCAGTACAACATGGGCTTCTCTTTGCCTACAGCATGAGACAGACACGGGC  
 ATATCATAGGCTGAAGGATGATGTCCCGGAAGAGTAAAATTAAGGCGTTTGGAGGAACCTCATCACTATC  
 TTCCGAGAAGAAGCAACAAAAGCCAATCAGACCTCTGTGGGCTGTACCCAGTTGGTGTAGTGAAGGGC  
 TCAGTAAACGCTCTGCCACTGACCTGTGTGGCAGGAATGATGAAACCTTAAGGTGATCTCCCTGATGC  
 AGAGATGGAGGATGTAATAACCTGGGCTCAGGGTCAAGCCAGCCTGGGACTATGTCTGGTGAAG  
 ATCACCTCAGCCAGTTCTCAGACACTTAGGGGACATGTTCTCTGCAGGACCACTCTGAGGGACTCTCTG  
 CATATTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238992 representing NM\_001278167  
 Red=Cloning site Green=Tags(s)

MHPLQCVLQVQVSLGWGPLASVSWLSLRMCRAHSSLSTMCPSPERQEDGARKDFSSRLAAGPTFQHFLK  
 SASAPQEKLSSEVEDPPPYLMMDELLGRQRKVYLETYGCMNVNDEIAWSILQKSGYLRTSNLQEADVI  
 LLVTCSI REKAEQTIWNRLHQLKALKTRRPRSRVPLRIGILGCMERLKEEILNREKMDVILAGPDAYRD  
 LPRLLAVAESGQQAANVLLSLDETYADVMPVQTSASATSAFVSI MRGCDNMCSYCI VPFTRGRERSRPIA  
 SILEEVKKLSEQLKEVTLGQNVNSFRDNSEVQFNSAVPTNLSRGFTTNYKTKQGLRF AHLLDQVSRV  
 DPEMIRIFTSPPHKDFPDEVLLIHERDNICKQIHLPAQSGSSRVLEAMRRGYSREAYVELVHHIRESIP  
 GVSLSSDFIAGFCGETEEDHVQTVSLLREVQYNGMFLFAYSMRQTRAYHRLKDDVPEEVKLRLEELITI  
 FREEATKANQTSVGCTQLVLEGLSKRSATDLGRNDGNLKVIFPDAEMEDVNNPGLRVRAQPGDYVLVK  
 ITSASSQTLRGHVL CRTTLRDSSAYC

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

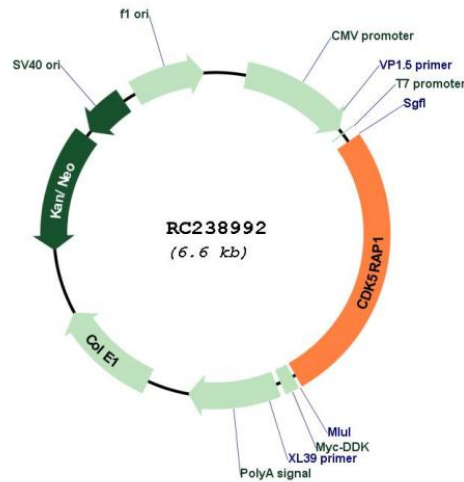
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


ACCN: NM\_001278167

ORF Size: 1758 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001278167.1</a> , <a href="#">NP_001265096.1</a>
<b>RefSeq Size:</b>	2140 bp
<b>RefSeq ORF:</b>	1761 bp
<b>Locus ID:</b>	51654
<b>Cytogenetics:</b>	20q11.21
<b>MW:</b>	66.5 kDa
<b>Gene Summary:</b>	This gene encodes a regulator of cyclin-dependent kinase 5 activity. This protein has also been reported to modify RNA by adding a methylthio-group and may thus have a dual function as an RNA methylthiotransferase and as an inhibitor of cyclin-dependent kinase 5 activity. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, May 2013]