

Product datasheet for **RC208724**

CDK5RAP1 (NM_016082) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDK5RAP1 (NM_016082) 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:

>RC208724 representing NM_016082
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCCGGCCTGAAGTAGCGGCGGAACGGAAGTCGCTTGTGTATGAACGCAGCGCGGACCTGTGAGGG
 GATCCGACTTGCCGGCAGAACTTACGCTGCGGGACCCCGGGCACTGTTGCTGCTGCGGGAGTCCAGAGAG
 GCAGGAGGATGGAGCTCGGAAGGATTTACGCTCCAGGCTGGCTGCTGGACCGACTTTTCAACATTTTTTA
 AAAAGTGCCTCAGCTCCTCAGGAGAAGCTGTCTTACAGAAGTGAAGACCCACCTCCCTATCTCATGATGG
 ATGAACCTCTTGAAGGCAGAGAAAAGTCTACCTCGAGACCTATGGCTGCCAGATGAATGTGAATGACAC
 AGAGATAGCCTGGTCCATCTTACAGAAGAGTGGCTACCTGCGGACCAGTAACTCCAAGAGGCAGATGTG
 ATTCTCCTTGTACATGCTCTATCAGGGAGAAGGCTGAGCAGACCATCTGGAACCGTTTACATCAGCTTA
 AAGCCTGAAGACAAGGGCGCCCGCTCCCGGGTCTCTGAGGATTGGAATTCTAGGCTGCATGGCTGA
 GAGGTTGAAGGAGGAGATTCTCAACAGAGAGAAAATGGTAGATATTTGGCTGGTCTGATGCCTACCGG
 GACCTTCCCGGCTGCTGGCTGTTGCTGAGTCGGGCCAGCAAGCTGCCAACGTGCTGCTCTCTGACG
 AGACCTATGCTGATGTCATGCCAGTCCAGACAAGCGCCAGTGCCACGTCTGCCTTTGTGTCAATCATGCG
 AGGCTGTGACAACATGTGTAGCTACTGCATTGTTCTTTACCCGGGGCAGGGAGAGGAGTCCGGCTATT
 GCCTCCATTCTAGAGGAAGTGAAGAAGCTTTCTGAGCAGGGGCTGAAAGAAGTGACACTTCTTGGTCAGA
 ATGTTAATAGTTTTCGGGACAATTCGGAGGTCCAGTTCACAGTGCAGTGCCTACCAATCTCAGTCGTGG
 CTTTACCACCAACTATAAAACCAAGCAAGGAGGACTTCGTTTTGCTCATCTTCTGGATCAGGTTCTCCAGA
 GTAGATCCTGAAATGAGGATCCGTTTTACCTCTCCCACCCCAAGGATTTCTGATGAGGTTCTGCAGC
 TGATTCATGAGAGAGATAACATCTGTAACAGATCCACCTGCCAGCCAGAGTGGAAAGCAGCCGTGTGTT
 GGAGGCCATGCGGAGGGGATATTCAAGAGAAGCTTATGTGGAGTTAGTTCACCATATTAGAGAATCTATT
 CCAGGTGTGAGCCTCAGCAGCGATTTTCATTGCTGGCTTTTGTGGTGGAGAGGAGGAGTACAGTCCAGA
 CAGTCTCTTTGCTCCGGGAAGTTCAGTACAACATGGGCTTCTCTTTGCCTACAGCATGAGACAGAAGAC
 ACGGGCATATCATAGGCTGAAGGATGATGTCCCGGAAGAGGTAATAAAGGCGTTTGGAGGAACATCATC
 ACTATCTCCGAGAAGAAGCAACAAAAGCCAATCAGACCTCTGTGGGCTGTACCCAGTTGGTGTAGTGG
 AAGGGCTCAGTAAACGCTCTGCCACTGACCTGTGTGGCAGGAATGATGAAAACCTAAGGTGATCTTCCC
 TGATGCAGAGATGGAGGATGTCAATAACCCTGGGCTCAGGGTCAAGAGCCAGCCTGGGGACTATGTGCTG
 GTGAAGATCACCTCAGCCAGTTCTCAGACACTTAGGGGACATGTTCTCTGCAGGACCACTCTGAGGGACT
 CTTCTGCATATTGC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208724 representing NM_016082
 Red=Cloning site Green=Tags(s)

MTRPEVAERKSLVYERSGGPVRGSDLP AELTLRDPGHCCCCGSPERQEDGARKDFSSRLAAGPTFQHFL
 KSASAPQEKLSSVEDEPPPYLMMDELLGRQRKVYLETYGCMNVNDEI AWSILQKSGYLRTSNLQ EADV
 ILLVTC SIREKAEQTIWNRLHQLKALKTRRPRSRVPLRIGILGCM AERLKEEILNREKMVDILAGP DAYR
 DLPRLLA VAESGQQAANVLLSLDETYADVMPVQTSASATSAFVSIMRGCDNMCSYCVPFTRGRERSRPI
 ASILEEVK KLSQGLKEVTL LGQNVNSFRDNSEVQFN SAVPTNL SRGFTTNYKTKQGGLRF AHLLDQVSR
 VDPEMIRIFTSPHPKDFPDEV LQLIHERDNICKQIHLPAQSGSSRVLEAMRRGYSREAYVELVHHIRESI
 PGVSLSSDFIAGFCGETEEDHVQTVSLLREVQYNMGFLFAYSMRQKTRAYHRLKDDVPVEVKLRREELI
 TIFREEATKANQTSVGCTQLV LVEGLSKRSATDL CGRNDGNLKVIFPDAEMEDVNNPGLRVRAQPGDYVL
 VKITSASSQTLRGHVL CRTTLRDS SAYC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_016082.4 , NP_057166.4
RefSeq Size:	1995 bp
RefSeq ORF:	1767 bp
Locus ID:	51654
UniProt ID:	Q96SZ6
Cytogenetics:	20q11.21
Domains:	TRAM, UPF0004, Elp3, Radical_SAM
MW:	66.1 kDa
Gene Summary:	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]