

Product datasheet for **RG216600**

CDK5RAP1 (NM_016408) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CDK5RAP1
Synonyms:	C20orf34; C42; CGI-05; HSPC167
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216600 representing NM_016408
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCACCCTTTACAGTGTGTCTCCAAGTGCAGAGGTCTCTGGGGTGGGACCATTGGCCTCTGTGTCTT
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 GGAGGATGGAGCTCGGAAGGATTTACAGCTCCAGGCTGGCTGCTGGACCGACTTTTCAACATTTTTAAAA
 AGTGCCCTCAGCTCCTCAGGAGAAGCTGTCTTCAGAAGTGAAGACCCACCTCCCTATCTCATGATGGATG
 AACTTCTTGAAGGCAGAGAAAAGTCTACCTCGAGACCTATGGCTGCCAGATGAATGTGAATGACACAGA
 GATAGCCTGGTCCATCTTACAGAAAGAGTGGCTACCTGCGGACCAGTAACCTCCAAGAGGCAGATGTGATT
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 CCTGAAGACAAGGCGGCCCGCTCCCGGGTTCCTCTGAGGATTGGAATTCTAGGCTGCATGGCTGAGAG
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 CTTCCCGGCTGCTGGCTGTTGCTGAGTCGGGCCAGCAAGCTGCCAACGTGCTGCTCTCTGACGAGAGA
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 GGCATATCATAGGCTGAAGGATGATGTCCCGAAGAGGTAAATTAAGGCGTTTGGAGGAACATCACT
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 GGCTCAGTAAACGCTCTGCCACTGACCTGTGTGGCAGGAATGATGGAACCTTAAGGTGATCTTCCCTGA
 TGCAGAGATGGAGGATGTCAATAACCTGGGCTCAGGGTCAGAGCCAGCCTGGGGACTATGTGCTGGTG
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 CTGCATATTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

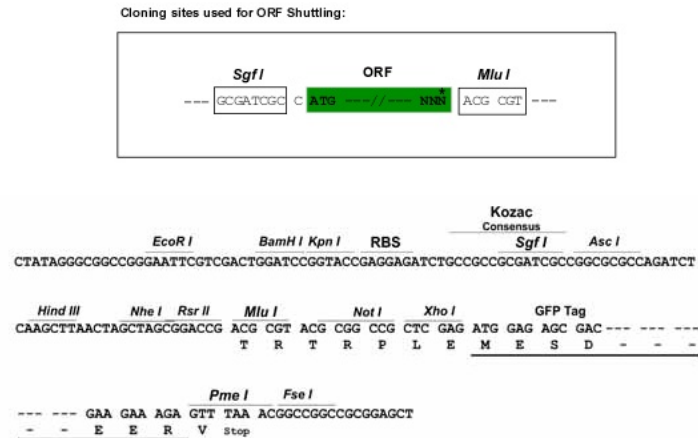
Protein Sequence: >RG216600 representing NM_016408
 Red=Cloning site Green=Tags(s)

MHPLQCVLQVQRSLGWGPLASVSWLSLRMCRAHSSLSTMCPSPERQEDGARKDFSSRLAAGPTFQHFLK
 SASAPQEKLSSSEVEDPPPYLMDELLGRQRKVYLETYGCMNVNDEIAWSILQKSGYLRTSNLQEADVI
 LLVTCISIREKAEQTIWNRLHQLKALKTRRPRSRVPLRIGILGCMERLKEEILNREKMVDILAGPDAYRD
 LPRLLAVAESGQQAANVLLSLDETYADVMPVQTSASATSAFVSIMRGCDNMCSYCIVPFTRGRERSRPIA
 SILEEVKKLSEQLKEVTLGQNVNSFRDNSEVQFNSAVPTNL SRGFTTNYKTKQGLRFAHLLDQVSRV
 DPEMRIRFTSPHPKDFPDEVLLIHERDNICKQIHLPAQSGSSRVLEAMRRGYSREAYVELVHHIRESIP
 GVSLSDFIAGFCGETEEDHVQTVSLLREVQYNMGFLFAYSMRQKTRAYHRLKDDVPEEVKLRLLEELIT
 IFREETKANQTSVGCTQLVLVEGLSKRSATDLGRNDGNLKVIFPDAEMEDVNNPGLRVRAQPQGDYVLV
 KITSASSQTLRGHVL CRTTLRDSSAYC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016408

ORF Size: 1761 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:

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.

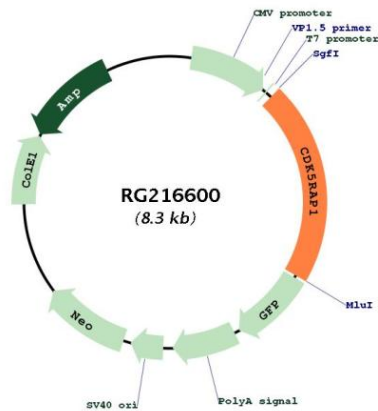
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016408.2](#), [NP_057492.2](#)

RefSeq Size:	2104 bp
RefSeq ORF:	1764 bp
Locus ID:	51654
UniProt ID:	Q96SZ6
Cytogenetics:	20q11.21
Domains:	TRAM, UPF0004, Elp3, Radical_SAM

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]

Product images:



Circular map for RG216600