

## Product datasheet for **RG238640**

### CDK5RAP1 (NM\_001278168) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDK5RAP1 (NM_001278168) Human Tagged ORF Clone
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)



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**ORF Nucleotide Sequence:**

>RG238640 representing NM\_001278168.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCACCCTTTACAGTGTGTCTCCAAGTGCAGAGGTCTCTGGGGTGGGACCATTGGCCTCTGTGTCT
TGGCTGTCGCTGAGGATGTGCAGGGCACACAGCAGTCTCTAGTACCATGTGTCCCAGTCCAGAGAGG
CAGGAGGATGGAGCTCGGAAGGATTTACGCTCCAGGCTGGCTGCTGGACCAGCTTTTCAACATTTTTTA
AAAAGTGCCTCAGCTCCTCAGGAGAAGCTGTCTTCAGAAGTGAAGACCCACCTCCCTATCTCATGATG
GATGAACCTTTTGAAGGCAGAGAAAAGTCTACCTCGAGACCTATGGCTGCCAGATGAATGTGAATGAC
ACAGAGATAGCCTGGTCCATCTTACAGAAGAGTGGCTACCTGCGGACCAGTAACCTCCAAGAGGCAGAT
GTGATTCTCCTTGTACATGCTCTATCAGGGAGAAGGCTGAGCAGACCATCTGGAACCGTTTACATCAG
CTTAAAGCCTTGAAGACAAGGCGGCCCGCTCCCGGTTCTCTGAGGATTGGAATTCTAGGCTGCATG
GCTGAGAGGTTGAAGGAGGAGATTCTAACAGAGAGAAAATGGTAGATATTTGGCTGGTCTGATGCC
TACCGGGACCTTCCCGGCTGCTGGCTGTTGCTGAGTCCGGCCAGCAAGCTGCCAACGTGCTGCTCTCT
CTGGACGAGACCTATGCTGATGTCATGCCAGTCCAGACAAGCGCCAGTGCCACGTCTGCCTTTGTGTCA
ATCATGCCAGGCTGTGACAACATGTGTAGCTACTGCATTGTTCCCTTTCACCCGGGCGAGGAGAGGAGT
CGGCTATTGCCTCCATTCTAGAGGAAGTGAAGAAGCTTTCTGAGCAGGTTCTGCAGCTGATTATGAG
AGAGATAACATCTGTAACAGATCCACCTGCCAGCCAGAGTGAAGCAGCCGTGTGTTGGAGGCCATG
CGGAGGGGATATCAAGAGAAGCTTATGTGGAGTAGTTCACCATATTAGAGAATCTATCCAGGTGTG
AGCCTCAGCAGGATTTTATTGCTGGCTTTTGTGGTGAGACGGAGGAAGTACAGTCCAGACAGTCTCT
TTGCTCCGGAAGTTTCACTACAACATGGGCTTCTCTTTGCCTACAGCATGAGACAGAAGACACGGGCA
TATCATAGGCTGAAGGATGATGTCCCGGAAGGTAATAAAGGCGTTTGGAGGAACCTCATCACTATC
TCCGAGAAGAAGCAACAAAAGCCAATCAGACCTCTGTGGGCTGTACCCAGTTGGTGTAGTGAAGGG
CTCAGTAAACGCTCTGCCACTGACCTGTGTGGCAGGAATGATGGAACCTTAAGGTGATCTTCCCTGAT
GCAGAGATGGAGGATGTCAATAACCCTGGGCTCAGGGTCAGAGCCAGCCTGGGACTATGTGCTGGTG
AAGATCACCTCAGCCAGTCTCAGACACTAGGGGACATGTTCTCTGCAGGACCACTCTGAGGGACTCT
TCTGCATATTGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238640  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MHPLQCVLQVQRSLGWGPLASVSWLSLRMCRAHSSLSTMCPSPERQEDGARKDFSSRLAAGPTFQHFL
KSASAPQEKLSEVEDPPPYLMMDELLGRQRKVYLETYGCQMNVDTEIAWSILQKSGYLRTSNLQEAD
VILLVTCSIREKAEQTIWNRLHQLKALKTRRPRSRVPLRIGILGCMERLKEEILNREKMDVILAGPDA
YRDLPRLLAVAESGQQAANVLLSLDETYADVMPVQTSASATSAFVSI MRGCDNMCSYCI VPFTRGRERS
RPIASILEEVKKLSEQVLQIHERDNICKQIHLPAQSGSSRVLEAMRRGYSREAYVELVHHIRESIPGV
SLSSDFIAGFCGETEEDHVQTVSLLREVQYNMGFLFAYS MRQKTRAYHRLKDDVPEEVKLRRLLEELITI
FREEATKANQTSVGCTQLV LVEGLSKRSATDL CGRNDGNLKVIFPDAEMEDVNNPGLRVRAQPGDYVLV
KITSASSQTLRGHVL CRTTLRDSSAYC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

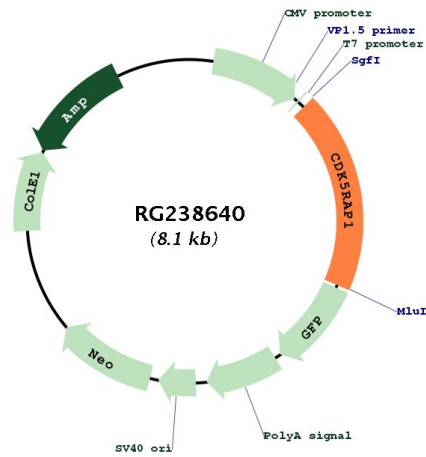
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001278168
<b>ORF Size:</b>	1530 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>RefSeq:</b>	<a href="#">NM_001278168.1</a> , <a href="#">NP_001265097.1</a>
<b>RefSeq Size:</b>	1912 bp
<b>RefSeq ORF:</b>	1533 bp
<b>Locus ID:</b>	51654
<b>UniProt ID:</b>	<a href="#">Q96SZ6</a>
<b>Cytogenetics:</b>	20q11.21
<b>MW:</b>	57.9 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]