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Product datasheet for SC110459

CDK5RAP1 (NM_016408) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDK5RAP1 (NM_016408) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDK5RAP1
Synonyms:	C20orf34; C42; CGI-05; HSPC167
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_016408, the custom clone sequence may differ by one or more nucleotides

ATGCACCCTTTACAGTGTGTCCTCCAAGTGCAGAGGTCTCTGGGGTGGGGACCATTGGCCTCTGTGTCTT
GGCTGTCGCTGAGGATGTGCAGGGCACACAGCAGTCTCTCTAGTACCATGTGTCCCAGTCCAGAGAGGCA
GGAGGATGGAGCTCGGAAGGATTTCAGCTCCAGGCTGGCTGCTGGACCGACTTTTCAACATTTTTTAAAA
AGTGCCTCAGCTCCTCAGGAGAAGCTGTCTTCAGAAGTGGAAGACCCACCTCCCTATCTCATGATGGATG
AACTTCTTGGAAGGCAGAGAAAAGTCTACCTCGAGACCTATGGCTGCCAGATGAATGTGAATGACACAGA
GATAGCCTGGTCCATCTTACAGAAGAGTGGCTACCTGCGGACCAGTAACCTCCAAGAGGCAGATGTGATT
CTCCTTGTCACATGCTCTATCAGGGAGAAGGCTGAGCAGACCATCTGGAACCGTTTACATCAGCTTAAAG
CCTTGAAGACAAGGCGGCCCCGCTCCCGGGTTCCTCTGAGGATTGGAATTCTAGGCTGCATGGCTGAGAG
GTTGAAGGAGGAGATTCTCAACAGAGAGAAAATGGTAGATATTTTGGCTGGTCCTGATGCCTACCGGGAC
CTTCCCCGGCTGCTGGCTGTTGCTGAGTCGGGCCAGCAAGCTGCCAACGTGCTGCTCTCTCTGGACGAGA
CCTATGCTGATGTCATGCCAGTCCAGACAAGCGCCAGTGCCACGTCTGCCTTTGTGTCAATCATGCGAGG
CTGTGACAACATGTGTAGCTACTGCATTGTTCCTTTCACCCGGGGCAGGGAGAGGAGTCGGCCTATTGCC
TCCATTCTAGAGGAAGTGAAGAAGCTTTCTGAGCAGGGGCTGAAAGAAGTGACACTTCTTGGTCAGAATG
TTAATAGTTTTCGGGACAATTCGGAGGTCCAGTTCAACAGTGCAGTGCCTACCAATCTCAGTCGTGGCTT
TACCACCAACTATAAAACCAAGCAAGGAGGACTTCGTTTTGCTCATCTTCTGGATCAGGTCTCCAGAGTA
GATCCTGAAATGAGGATCCGTTTTACCTCTCCCCACCCCAAGGATTTTCCTGATGAGGTTCTGCAGCTGA
TTCATGAGAGAGATAACATCTGTAAACAGATCCACCTGCCAGCCCAGAGTGGAAGCAGCCGTGTGTTGGA
GGCCATGCGGAGGGGATATTCAAGAGAAGCTTATGTGGAGTTAGTTCACCATATTAGAGAATCTATTCCA
GGTGTGAGCCTCAGCAGCGATTTCATTGCTGGCTTTTGTGGTGAGACGGAGGAAGATCACGTCCAGACAG
TCTCTTTGCTCCGGGAAGTTCAGTACAACATGGGCTTCCTCTTTGCCTACAGCATGAGACAGAAGACACG
GGCATATCATAGGCTGAAGGATGATGTCCCGGAAGAGGTAAAATTAAGGCGTTTGGAGGAACTCATCACT
ATCTTCCGAGAAGAAGCAACAAAAGCCAATCAGACCTCTGTGGGCTGTACCCAGTTGGTGCTAGTGGAAG
GGCTCAGTAAACGCTCTGCCACTGACCTGTGTGGCAGGAATGATGGAAACCTTAAGGTGATCTTCCCTGA
TGCAGAGATGGAGGATGTCAATAACCCTGGGCTCAGGGTCAGAGCCCAGCCTGGGGACTATGTGCTGGTG
AAGATCACCTCAGCCAGTTCTCAGACACTTAGGGGACATGTTCTCTGCAGGACCACTCTGAGGGACTCTT
CTGCATATTGCTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016408 unedited
GTTCACATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGGCTGTTTAG
TGCCATGCACCCTTTACGTGTGTCCTCCAAGTGCAGAGGTCTCTGGGGTGGGGACCATTG
GCCTCTGTGTCTTGGCTGTCGCTGAGGATGTGCAGGGCACACAGCAGTCTCTCTAGTACC
ATGTGTCCCAGTCCAGAGAGGCAGGAGGATGGAGCTCGGAAGGATTTCAGCTCCAGGCTG
GCTGCTGGACCGACTTTTCAACATTTTTTAAAAAGTGCCTCAGCTCCTCAGGAGAAGCTG
TCTTCAGAAGTGGAAGACCCACCTCCCTATCTCATGATGGATGAACTTCTTGGAAGGCAG
AGAAAAGTCTACCTCGAGACCTATGGCTGCCAGATGAATGTGAATGACACAGAGATAGCC
TGGTCCATCTTACAGAAGAGTGGCTACCTGCGGACCAGTAACCTCCAAGAGGCAGATGTG
ATTCTCCTTGTCACGTGCTCTATCAGGGAGAAGGCTGAGCAGACCATCTGGAACCGTTTA
CATCAGCTTAAAGCCTTGAAGACAAGGCGGCCCCGCTCCCGGGTTCCTCTGAGGATTGGA
ATTCTAGGCTGCATGGCTGAGAGGTTGAAGGAGGAGATTCTCAACAGAGAGAAAATGGTA
GATATTTTGGCTGGTCCTGATGCCTACCGGGACCTTCCCCGGCTGCTGGCTGTTGCTGAG
TCGGGCCAGCAAGCTGCCAACGTGCTGCTCTCTCTGGACGAGACCTATGCTGATGTCATG
CCAGTCCAGACAAGCGCCAGTGCCACGTCTGCCTTTGTGTCATCATGCGAGGCTGTGNAC
ACATGTGTAGCTACTGCATTGNTCCTTTNCACCCGNGCAGGNNNAGAGAGTCGNCTATTG
CCTCCATTCTANAGGAAGTGAAGAAGCTTCTGAGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016408 unedited
AGTTGAGGTAAATTTAATGTACTGTAAAATCTGTTCACATAGCAGCTTTAAAGACACACG
TTTTCCACTGACATAAAGTTGCTTCGCCCCTTGCAGCTTATCTCCACCTTCATGACCTGT
TTCCTCAGTGGCAGGCAATGTCTCCCCTTCCTGTTGGGGAGGATTGCCCACCCACACTCT
GACGCCATCCTATAATGCCACCAGTCTCTCCAACACTCCCCTCACATTGGTCGTGTTCCC
AACATGTCCCCTAACTTTCTCACAACTGCCTGCAGTGACTCTCACTACTCCATACCCCCC
ACTCTGCCCTCCCCACATCTGCCACCCACGTCATTCACATACTCACATCCCCTGCCTCCG
GCAATACACCCCTCCCGGTTTGCTCTCCCCTTCCCATACACCCCATTTCGCGCCACCTTC
TACTGTATTCCTCCCCCTCCTTTTCCCCCCCCCCTCTACCCCCCATTACGCCCCCCCCGCC
CTCCCCCCCCCATATCCCTTTTCCCCATCCTCTTTCCCCCCCCCTTTAACCCCGCTTTTCTA
CCTCCCCCTTTCCCCCCTGCCTTTCCCCCCCCCTCATCTGTCCCTTATCCCACCATCCTCA
CCCTGTTTTCCCCGTTCCCTCCCGCCCCCCCGCCCCCCTTTCTTTCCCTCATTCCTTTCC
CCTTCGCCACCGCATTCTCTTCTCCCCTCTCCCCCCCCCGTTTTTCTTCACACCCCCTTT
CCCCCCCCCTTCGTCCTTTTCACTCTCACTTCCTCCCCCGTCTCCCCCCCCCCAATCTTC
CCCCGTTTTTCTCCCCCGCTCCACCTTTGTCGCCGACCCCCTCCCCACTTCATGCGTAAT
CCCCGCCGCCGCACAATGAATTCCCCCTGTCCCCCCACCCCCCCCCGCCCTTTTTCCTAT
ACGCCCCCCCCCTCCCCTCTTTGTCTCCCCCCCCTCCCCCCCCCCATTACTTCCCCGTTA
TTGCTTCCCCACCTTCCCGCGTTCCCGTTCCCCTACCATTTCCG

Restriction Sites: NotI-NotI

ACCN: NM_016408

Insert Size: 4600 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:
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_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]
Transcript Variant: This variant (1) encodes isoform (a).