

Product datasheet for **MR209175**

Cdk5rap1 (NM_025876) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk5rap1 (NM_025876) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk5rap1
Synonyms:	2310066P17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209175 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCATCCTTTACGGTGTCTCTCCAAGTACAGAGTTGTGTCAGCACCATTACCTCCATGTGCTGGGTGT
 TGCTTAGGACCTGCAGAGCACAAAGCAGTGTGTCCAGCACTCCTTGTCAGTCCAGAGGCGAAGAGCTC
 AGAAGCTCAGAAGGACTTCAGCTCCAGGCTAGCCACTGGACCGACTTTTCAGATTTTTTAAGAAGTGCT
 TCAGTTCCTCAAGAGAAACCATCTTCTCCAGAGGTGGAGGACCCACCTCCCTATCTCTCGGGGGTGAAC
 TTCTAGGAAGGCAGAGAAAAGTCTACCTCGAGACCTATGGCTGTCAGATGAACGTGAACGACACAGAGAT
 AGCCTGGTCCATCTTACAGAAGAGTGGTACCTTCGGACCAGCAACCTCAAGAGGCTGATGTGATCCTT
 CTTGTCACGTGTTCTATCAGGGAGAAGGCCGAGCAGACCCTGGAACCGCTTACATCAGCTCAAAGTCC
 TGAAGACAAGCGGCCACGCTCTCGAGTACCTCTGAGGATTGGGATTCTAGGCTGCATGGCTGAGAGGCT
 GAAGGGAGAGATCCTCAACAGGGAGAAGATGGTAGATCTTTGGCTGGTCCAGACGCCTACCGAGACCTT
 CCCCAGCTGCTGGCTGTGGTGGAGTCAAGTCAAGCAGCAAAATGTGCTTCTCTCTGATGAGACCT
 ACGCAGATATCATGCCAGTCCAGACGAGCCCCAGTGCCACTTCTGCCTTTGTATCCATTATGCGGGGCTG
 CGACAACATGTGCAGTACTGTATCGTGCCGTTACGCGTGGCCGGGAGAGGAGCCGGCCAGTTGCCTCC
 ATTCTCGATGAAGTGAGGAAGCTGTCCGAGCAGGGCCTAAAAGAAGTGACACTTCTTGGTCAGAAATGTTA
 ATAGTTTTCGGGACAATTCGGAAGTCCAGTTCAATAATGCAGGGTCTGCTAACCTCAGCCGTGGCTTTAC
 CACCAACTATAAACCCAAACAAGGAGGGCTTCGTTTTCTCACCTTCTGGATCAGGTTTCAAGAATCGAT
 CCTGAAATGAGGATCCGATTACCTCTCCTCACCCCAAGGATTTTCTGATGAGGTTCTCAGCTGATTC
 GTGAGAGACACAACATCTGTAGCAGATCCACCTGCCAGCCAGAGTGAAGCAGCCGTACTGGATGC
 CATCGGAGAGGATATCAAGAGAAGCATATGTGGCATTAGTTCATCATGTGAGAGACTATCCAGGT
 GTGAGCCTTAGCAGCAGTTCATCACTGGCTTTTGTGGAGAGACAGAGGATGATCACCGCAGACAGTGT
 CTTTACTTAGAGAAGTGCAAGTATAATACCGTTTTCTCTTTGCATACAGCATGAGGCAAAAGACACGAGC
 ATATCACAGGCTGAAGGATGATGTTCCAGAAGAAGTAAAATTAAGGCGTTTGGAGGAACCTACTACTGTC
 TTCAGAGAAGAAGCTTAAAAGCCAATAAGACCTCAGTGGGTTGTAGCCAGCTGGTACTGGTTGAAGGT
 TCAGCAAACGTTCTACCACAGACCTTTGTGGCCGGAATGATGCAAACCTAAGGTGATTTCCCTGACGC
 AGAGGTGGAGGATATCACTAACCTGGGCTCAAGGTGAGCTCAACCTGGGACTATGTCTGGTGAAG
 ATCACCTTGCCAGCTCTCAGACCCTGAAAGGACACATCTCTGCAGGACCACTATGAAAGACTCATTGA
 CGTATTGCACGACC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

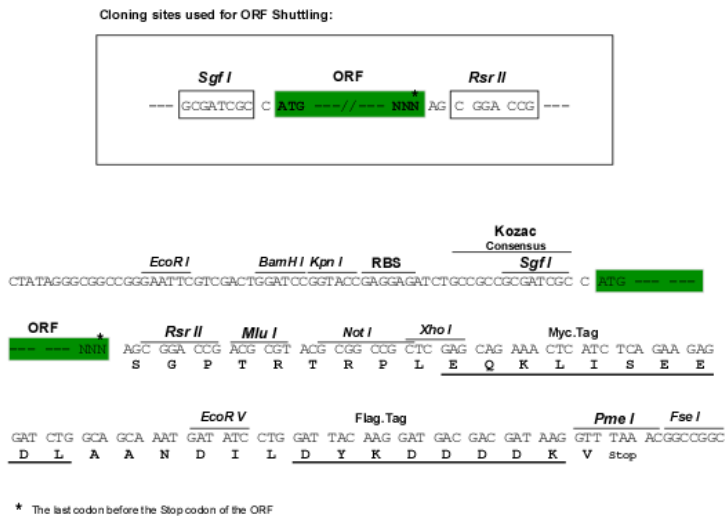
>MR209175 protein sequence
 Red=Cloning site Green=Tags(s)

MHPLRCVLQVQRLSAPFTSMCWLLRTRCRAQSSVSSTPCPSPEAKSSEAQKDFSSRLATGPTFQHFLRSA
 SVPQEKPSPEVEDPPPYLSGDELLGRQRKVLYLETYGCQMNVDTEIAWSILQKSGYLRTSNLQEADVIL
 LVTCSIREKAEQTIWNRHLQLKVLKTKRPRSRVPLRIGILGCMAERLKEILNREKMDLLAGPDAYRDL
 PRLAVVESGQQAANVLLSLDETYADIMPVQTSPTSATSAFVSIMRGCNDMCSYIVPFRGRERSRPVAS
 ILDEVKRLSEQGLKEVTLGQNVNSFRDNSEVQFNAGSANLSRGFTTNYKPKQGGLRFSHLLDQVSRID
 PEMRIRFTSPHPKDFPDEVLLQIRERHNIQKQIHLPAQSGSSRVLDMRRGYSREAYVALVHHVRETIPG
 VSLSSDFITGFCGETEDDHRQTVSLLREVQYNTGFLFAYSMRQKTRAYHRLKDDVPEEVKLRREELITV
 FREEASKANKTSVGSQVLVVEGFSKRSTDLGRNDANLKVIFPDAEVEDITNPLKVRQAQPGDYVLVK
 ITSASSQTLKGHILCRRTMKDSLTYCTT

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_025876

ORF Size: 1767 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.

RefSeq: [NM_025876.2](#), [NP_080152.1](#)

RefSeq Size: 1970 bp

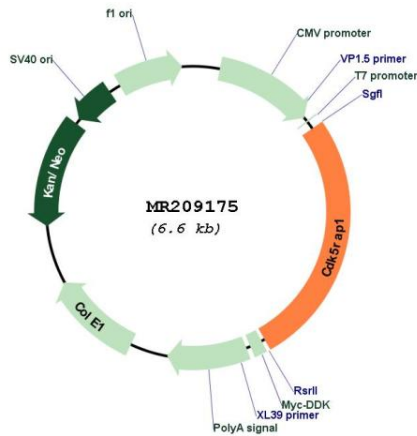
RefSeq ORF: 1767 bp

Locus ID: 66971

UniProt ID: [Q8BTW8](#)

Cytogenetics: 2 H1
MW: 66.1 kDa
Gene Summary: Probable regulator of CDK5 activity. May inhibit CDK5 function via its interaction with CDK5R1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209175