

Product datasheet for **MG209175**

Cdk5rap1 (NM_025876) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk5rap1 (NM_025876) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdk5rap1
Synonyms:	2310066P17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209175 representing NM_025876
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATCCTTTACGGTGTCTCCTCAAGTACAGAGTTGTGAGCACCATTACCTCCATGTGCTGGGTGT
 TGCTTAGGACCTGCAGAGCACAAGCAGTGTGTCCAGCACTCCTTGCCAGTCCAGAGGCGAAGAGCTC
 AGAAGCTCAGAAGGACTTCAGCTCCAGGCTAGCCACTGGACCGACTTTTTCAGATTTTTTAAAGTGTCT
 TCAGTTCTCAAGAGAAACCATCTTCTCCAGAGGTGGAGGACCCACCTCCCTATCTCTCGGGGGATGAAC
 TTCTAGGAAGGCAGAGAAAAGTCTACCTCGAGACCTATGGCTGTCAGATGAACGTGAACGACACAGAGAT
 AGCCTGGTCCATTTACAGAAGAGTGGTACCTTCGGACCAGCAACCTCCAAGAGGCTGATGTGATCCTT
 CTTGTCACGTGTTCTATCAGGGAGAAGGCCGAGCAGACCATCTGGAACCGCTTACATCAGCTCAAAGTCC
 TGAAGACAAGCGCCACGCTCTCGAGTACCTCTGAGGATTGGGATTCTAGGCTGCATGGCTGAGAGGCT
 GAAGGGAGAGATCCTCAACAGGGAGAAGATGGTAGATCTCTTGGCTGGTCCAGACGCCTACCGAGACCTT
 CCCCAGGCTGCTGGCTGTGGTGGAGTCAAGTCCAGCAAGCAGCAAATGTGCTTCTCTCTGGATGAGACCT
 ACGCAGATATCATGCCAGTCCAGACGAGCCCCAGTCCACTTCTGCCTTTGTATCCATTATGCGGGGCTG
 CGACAACATGTGCAGTTACTGTATCGTGCCGTTTACGCGTGGCCGGGAGAGGAGCCGCGCCAGTTGCCTCC
 ATTCTCGATGAAGTGAGGAAGCTGTCCGAGCAGGGCCTAAAAGAAGTGACACTTCTTGGTCAAGATGTTA
 ATAGTTTTCGGGACAATTCGGAAGTCCAGTTCAATAATGCAGGGTCTGCTAACCTCAGCCGTGGCTTTAC
 CACCAACTATAAACCCAAACAAGGAGGGCTTCGTTTTCTCACCTTCTGGATCAGTTTCAAGAATCGAT
 CCTGAAATGAGGATCCGATTCACCTCTCTCACCCAAAGGATTTCTCTGATGAGGTTCTTCAGCTGATTC
 GTGAGAGACACAACATCTGTAAGCAGATCCACCTGCCAGCCAGAGTGAAGCAGCCGCTACTGGATGC
 CATGCGGAGAGGATATTCAAGAGAAGCATATGTGGCATTAGTTTCATCATGTCAGAGAGACTATCCCAGGT
 GTGAGCCTTAGCAGCGACTTCATCACTGGCTTTTGTGGAGAGACAGAGGATGATCACCGGACAGAGTGT
 CTTTACTTAGAGAAGTGCAAGTATAATACCGTTTTCTCTTTCATACAGCATGAGGCAAAAGACACGAGC
 ATATCACAGGCTGAAGGATGATGTTCCAGAAGAAGTAAAATTAAGGCGTTTGGAGGAACTCATTACTGTC
 TTCAGAGAAGAAGCTTCAAAGCCAATAAGACCTCAGTGGGTTGTAGCCAGCTGGTACTGGTTGAAGGGT
 TCAGCAAACGTTCTACCACAGACCTTTGTGGCCGAATGATGCAAACCTTAAGGTGATTTCCCTGACGC
 AGAGGTGGAGGATCACTAACCTGGGCTCAAGGTCAGAGCTCAACCTGGGACTATGTCTGGTGAAG
 ATCACCTCTGCCAGCTCTCAGACCCTGAAAGGACACATCTCTGCAGGACCACTATGAAAGACTCATTGA
 CGTATTGCACGACC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209175 representing NM_025876
 Red=Cloning site Green=Tags(s)

MHPLRCVLQVQRLSAPFTSMCWLLRTRCRAQSSVSSTPCPSPEAKSSEAQKDFSSRLATGPTFQHFLRSA
 SVPQEKPSPEVEDPPPYLSGDELLGRQRKVYLETYGCQMNVDTEIAWSILQKSGYLRTSNLQEADVIL
 LVTCISIREKAEQTIWNRLHQLKVLKTKRPRSRVPLRIGILGCMAERLKGEILNREKMDLLAGPDAYRDL
 PRLAVVESGQQAANVLLSLDETYADIMPVQTPSATSFAFVSIMRGCDNMCSYCIVPFTRGRERSRPVAS
 ILDEVKRLSEQGLKEVTLGQNVNSFRDNSEVQFNAGSANLSRGFTTNYKPKQGLRFSHLLDQVSRID
 PEMRIRFTSPHPKDFPDEVQLIRERHNIQKQIHLPAQSGSSRVLDAMRRGYSREAYVALVHHVRETIPG
 VSLSSDFITGFCEGETEDDHRQTVSLLREVQYNTGFLFAYSMRQKTRAYHRLKDDVPPEEVKLRLEELITV
 FREEASKANKTSVGCSQLVLEGFSKRSTDLGCRNDANLKVIFPDAEVEDITNPLKVRAPGDYVVLK
 ITSASSQTLKGHILCRTTMKDSLTYCTT

SGPTRRRLE - GFP Tag - V

Restriction Sites:

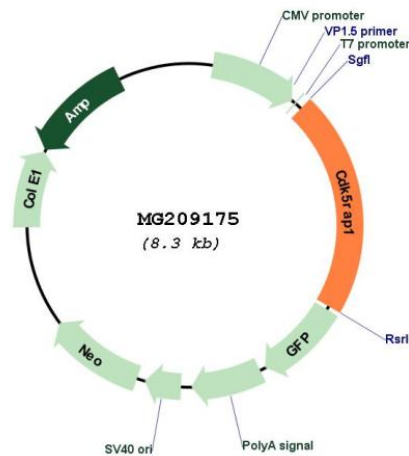
Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_025876

ORF Size: 1764 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:	<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_025876.2 , NP_080152.1
RefSeq Size:	1970 bp
RefSeq ORF:	1767 bp
Locus ID:	66971
UniProt ID:	Q8BTW8
Cytogenetics:	2 H1
Gene Summary:	Probable regulator of CDK5 activity. May inhibit CDK5 function via its interaction with CDK5R1 (By similarity).[UniProtKB/Swiss-Prot Function]