

Product datasheet for **MC200373**

Cdk5rap3 (NM_030248) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Cdk5rap3
Synonyms:	1810007E24Rik; BC002318; C53; C81486; HSF-27; IC53; LZAP; MST016
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF: >BC002318 sequence for NM_030248
 GTTTGTTTCGGAAGTGAAGGCTCAAGCACAGCCGCTCAGGATTGGTGTCTAGGCTGGGCCGGGGTCTTTGGC
 CGGAAGCGGAAGTGGAGAAAGGATGCAGGACCATCAGCACGTGCCCATCGACATCCAGACCAGCAAGCTG
 CTCGACTGGCTGGTGGACAGAAGACACTGTAACCTAAAATGGCAGAGCCTGGTGTGACCATCCGGGAAA
 AAATCAACACTGCCATCCAGGACATGCCAGAGAGCCAGGAGATTGCCAGCTGCTCTCTGGATCCTACAT
 TCATTACTTCCACTGCCTAAGAATAGTGGACCTTCTTAAAGGCACCGAGGCGTCCACCAAAAATATTTTT
 GGCCGGTACTCTTCAACGGATGAAAGATTGGCAGGAGATCGTAAGCCTGTATGAGAAGGACAACACCT
 ATTTAGTGGAACTCTGTAGCCTCCTGGTTCGGAATGTCAGCTATGAGATCCCCTCGCTGAAGAAGCAGAT
 TGCCAAGTGCCAGCAACTGCAGCAAGAATACAGCCGCAAGGAGGAGGAGGGCCAGGCTGGGGCCGCTGAG
 ATGCGAGAGCAATTCTACCACTCCTGCAACAGATATGGCATCACGGGAGACAATGTCCGAAGAGAAGCTTC
 TGGCCCTGGTGAAGGACCTGCCAAGTCAGCTGGCTGAGATAGGGGCAGGGGCTCAGTCCCTGGGGAGGC
 CATTGACCTGTACCAGGCCTGTGTGGAGTTTGTGTGTGACAGCCCCACAGAGCAAGTGTGCCCATGCTG
 CGGTATGTGCAGAAGAAGGAAACTCGACGGTGTATGAGTGGAGGACGGGGACAGAGCCCTCTGTGGTGG
 AGCGACCACAGCTGGAGGAGCCTCCTGAGCAGGTGCAAGAGGATGAGATCGACTGGGGTGACTTTGGGGT
 GGAAGCTGTTCCGACTCTGGCATCGTTGCTGAGACTCCTGGAATAGACTGGGGTATCTCCCTGGAGTCA
 GAGGCCAAGGATGCTGGGGCTGACAAGATAGACTGGGGTGACGATGCTGCTGCTGCTTCAGAGATCACCG
 TGCTGGAGACAGGAAGTGAAGCTCCGAGGGGTAGCTCGGGGCTCAGACGCTCTGACTCTTCTGGAATA
 CCCTGAAACTCGGAATCAGTTCATTGATGAGCTCATGGAGCTTGAGATCTTCTGTCTCAGAGAGCAGTA
 GAGATGAGCGAGGAGGCCGACATCCTGTCGTCGAGCCAGTTCAGCTGGCTCCTGCCATCCTCAGGGCC
 AGACCAAGAGAGAAGATGCTCAGCCTGGTGTCCACGCTGCAGCAGCTGATCGGCCGGCTCACCAGTCTGCG
 GATGCAGCAGCTGTTTATGATTCTGGCCTCGCCAAGGTATGTGGACCGAGTGACAGAGTTCTCCAGCAG
 AAGCTGAAGCAGTCGACGCTGTTGGCTTTGAAGAAGGAGCTGATGGTGGAGAAGCAGCAGGAGGCGCTTC
 AGGAGCAGGAGCTCTGGAGCCCAAGCTGGACCTGCTGCTGGAGAAGACCAGAGAGCTGCAGAACTGAT
 TGAAGCCGACATCTCCAAGAGATACAGTGGCCGCTCCTGTGAACCTGATGGGGACCTCTCTGTGACGCGCT
 CCCTCTGTGTCTCCACCTCCTTCCAGCTACCAGGAGGAGTGGGACAGCCAGGCTGATGCTACTGG
 GCCTCACCAGCAAGAAGTCAGGCGGACTTGGAGACAGAGCCATGAGGAAGGGTCACACCATGATCTCTGC
 AAGCAGTTGTCTTGAGTGGCTCTGGCCTGTCAGCCTTAAGGCACACTTGCTGCTTCTAGTTGTCAAGTGA
 GGCTTAATAAAAGGAAGTGACTCTCCTTCTGGCTGGCAGTCACTTGACACCACCAAAAAAAAAAAAAAAAAA AA

Restriction Sites: RsrII-NotI

ACCN: NM_030248

Insert Size: 1512 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC002318 , AAH02318
RefSeq Size:	1892 bp
RefSeq ORF:	1512 bp
Locus ID:	80280
UniProt ID:	Q99LM2
Cytogenetics:	11 D
Gene Summary:	Probable tumor suppressor initially identified as a CDK5R1 interactor controlling cell proliferation. Negatively regulates NF-kappa-B-mediated gene transcription through the control of RELA phosphorylation. Also regulates mitotic G2/M transition checkpoint and mitotic G2 DNA damage checkpoint. Through its interaction with CDKN2A/ARF and MDM2 may induce MDM2-dependent p53/TP53 ubiquitination, stabilization and activation in the nucleus, thereby promoting G1 cell cycle arrest and inhibition of cell proliferation. May play a role in the unfolded protein response, mediating the ufmylation of multiple proteins in response to endoplasmic reticulum stress. May also play a role in the rupture of the nuclear envelope during apoptosis. May regulate MAPK14 activity by regulating its dephosphorylation by PPM1D/WIP1. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).