

Product datasheet for MR204342

Cdk5r1 (NM_009871) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk5r1 (NM_009871) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk5r1
Synonyms:	Cdk5r; D11Bwg0379e; p25; p35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204342 representing NM_009871 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACGGTGTCTCCCTATCCCCAGCTATCGGAAGGCCACACTGTTTGAGGATGGCGCGGCCACCG
TGGGCCACTACACGGCCGTGCAGAACAGCAAGAACGCCAAGGACAAGAACCTGAAGCGGCACTCCATCAT
CTCGGTGCTGCCTTGAAGAGGATCGTGGCGGTGTGAGCGAAGAAGAAGAACTCCAAGAAGGCGCAGCCC
AACAGCAGCTACCAGAGCAACATCGCGCATCTCAACAATGAGAACCTGAAGAAGTCGCTGTCTGTGCCA
ACCTGTCCACATTGCCCCAGCCCCGCGGCTCAGCCGCCGCACCCCCAGCCAGCAGCTTTCTGGCTC
CCAGACTGGGGTCTCCTCTTCTGTCAAGAAGGCCCCGCACCCTGCCATCACCTCTGCAGGGACACCCAAA
CGGGTCATCGTCCAGGCGTCCACTAGTGAGCTGCTGCGCTGCCTGGGTGAGTTTCTGCGCCGGTGTCT
ACCGCCTGAAGCACTTGTCCCCAACGGACCCCGTCTGCTGGTGCAGCGTGGACCGCTCCCTGCTTCT
GCAGGGCTGGCAGGACCAGGTTTTCATCACACCGCCAATGTGGTCTTCTCTACATGCTCTGCAGGGAT
GTCATCTCCTCTGAGGTGGGCTCCGACCATGAGCTCCAGGCTGTCTGCTGACCTGTCTGTACCTCTCT
ATTCTACATGGGCAATGAGATCTCTACCCGCTCAAGCCCTTCTGGTAGAGAGCTGTAAGGAAGCCTT
TTGGGACCGTTGCCTCTCAGTTATCAACCTCATGAGCTCCAAGATGCTGCAGATCAATGCCGACCCACAC
TATTTACACAAGTGTTCTCTGACTTGAAGAATGAGAGCGGTGAGGAGCAAGAAGCGACTCTCTCTGG
GGCTGGATCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204342 representing NM_009871
Red=Cloning site Green=Tags(s)

MGTVLSLSPSYRKATLFEDGAATVGHYTAVQNSKNAKDKNLKRHSIISVLPWKRIIVASAKKKNSKKAQP
 NSSYQSNIAHLNENLKKSLSCANLSTFAQPPPAQPPAPPASQLSGSQTGVSSSVKKAPHPAITSAGTPK
 RVIVQASTSELLRCLGEFLCRRCYRLKHLSPDPVWLRSVDRSLLLQGWQDQGFITPANVVFLYMLCRD
 VISSEVGSDELQAVLLTCLYLSYSYMGNEISYPLKPFLLVESCKEAFWDRCLSVINLMSSKMLQINADPH
 YFTQVFSDLKNESGQEDKKRLLGLDR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009871

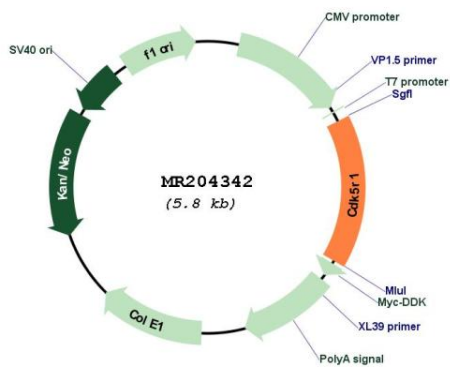
ORF Size: 921 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_009871.3
RefSeq Size:	4166 bp
RefSeq ORF:	924 bp
Locus ID:	12569
UniProt ID:	P61809
Cytogenetics:	11 47.94 cM
MW:	34.5 kDa
Gene Summary:	p35 is a neuron specific activator of CDK5. The complex p35/CDK5 is required for neurite outgrowth and cortical lamination. Involved in dendritic spine morphogenesis by mediating the EFNA1-EPHA4 signaling. Activator of TPKII. The complex p35/CDK5 participates in the regulation of the circadian clock by modulating the function of CLOCK protein: phosphorylates CLOCK at 'Thr-451' and 'Thr-461' and regulates the transcriptional activity of the CLOCK-ARNTL/BMAL1 heterodimer in association with altered stability and subcellular distribution.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204342