

Product datasheet for MC206164

Cdk5r1 (BC058697) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk5r1 (BC058697) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cdk5r1
Synonyms:	p35, Cdk5r, p25
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC058697

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GGAGCCGCCGCCGCGCCGAGTCGAGCACCCGGGCCGCGCGCATTGCGGAGGGCTGGGACGCAGCGG
CTGCGCCTGCCGCGGGAGCCTGCCTGACTGCGGGTAAGCCTGCGCGGACCGGGCCGTGTGCGCGCCTG
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GGCAAGATCTGCACAGCCCTGGGGCATCAGTGCAGGAGCCTGCAGAGACTGCTGATGACTGTTGACCATG
CACGGCCCTGGTTTGCTGCGTGTCTTTTTAGGGAGAAGGGCTTTCCTTTCCTGGCAGGACAGAGCTCCCC
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GCTGCTATGAAGACACTTTTGAACACACACACAAGATAGAAAAGAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Ascl-NotI
- ACCN:** BC058697
- Insert Size:** 924 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:** [BC058697](#), [AAH58697](#)
- RefSeq Size:** 3542 bp
- RefSeq ORF:** 924 bp

Locus ID: 12569

Cytogenetics: 11 47.94 cM

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]