

Product datasheet for **RR207727**

Cdk5 (NM_080885) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cdk5 (NM_080885) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cdk5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207727 representing NM_080885
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCAGAAATACGAGAACTGGAGAAGATTGGGAAGGCACCTACGGAAGTGTTCAGGCCAAAAACC
 GGGAAACCCATGAGATTGTGGCTCTGAAGCGAGTCAGGCTGGACGATGACGATGAGGGTGTGCCAAGTTC
 AGCCCTCCGGGAGATCTGTCTACTCAAAGAAGTGAAGCAGCAAAAACATTGTCAGGCTTCATGATGTCCTG
 CATAGTGACAAGAAGCTCACATTGGTGTGGATTCTGTGATCAGGACCTGAAGAAATATTTTGACAGCT
 GCAATGGTGACCTGGACCTGAGATTGTGAAGTCACTCCTCTCCAGCTGCTGAAAGGCCTGGGATTCTG
 TCACAGCCGTAACGTGCTGCACAGGGACCTGAAGCCCCAGAATCTGCTCATTAAACAGGAATGGGAACTG
 AAATTGGCTGATTTTGGCCTGGCCCCGAGCCTTTGGTATCCAGTCCGCTGCTACTCTGCTGAGGTGGTCA
 CGCTGTGGTACCGCCACCGGATGTCTCTTTGGGGCCAAGCTGTACTCCACGTCCATCGACATGTGGTC
 AGCCGGCTGCATCTTTGACAGAGCTGGCCAATGCAGGGCGACCTCTCTCCCGGCAATGATGTGGATGAC
 CAGCTGAAGAGGATCTTTGACTGCTAGGGACACCGACTGAGGAACAGTGGCCTGCCATGACCAAATGC
 CAGACTATAAGCCCTACCAATGTACCCAGCTACAACATCCTTGGTGAATGTCGTGCCAAACTCAATGC
 CACGGGGAGAGACCTGTTGCAGAACCTGTTGAAGTGAACCCAGTGCAGGCATCTCGGCAGAGGAGGCC
 TTGCAGCACCCCTATTTCTGACTTCTGTCCCCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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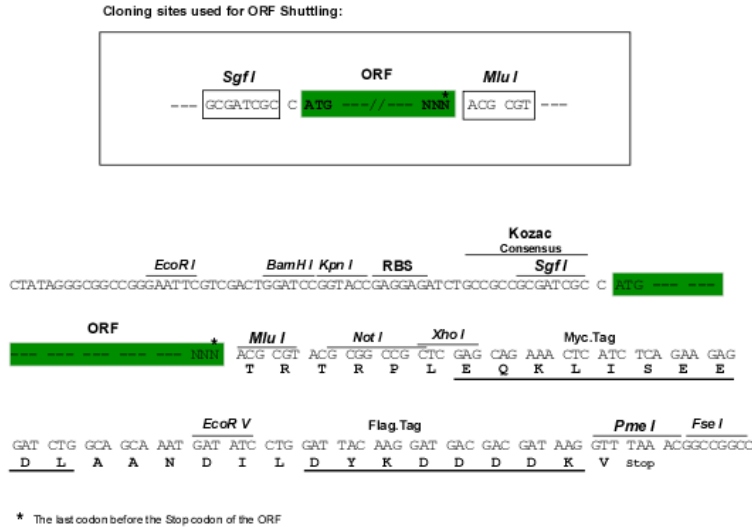
Protein Sequence: >RR207727 representing NM_080885
 Red=Cloning site Green=Tags(s)

MQKYEKLEKIGEGTYGTVFKAKNRETHEIVALKRVRLLLLDDDEGVPSSALREICLLKELKHKNIIVRLHDVL
 HSDKKLTLVFEFCDQLKKYFDSCNGDLDPKIVKSLLFQLLKGLGFCHSRNVLHRDLKPQNLLINRNGEL
 KLADFGLARAFGIPVRCYSAEVVTLWYRPPDVLFGAKLYSTSIDMWSAGCIFAE LANAGRPLFPNGDVDD
 QLKRIFRLLGTPTEEQWPAMTKLPDYKPYMPYPATTSLVNVVVKLNATGRDLLQNLKCNPVQRISAEEA
 LQHPYFSDFCPP

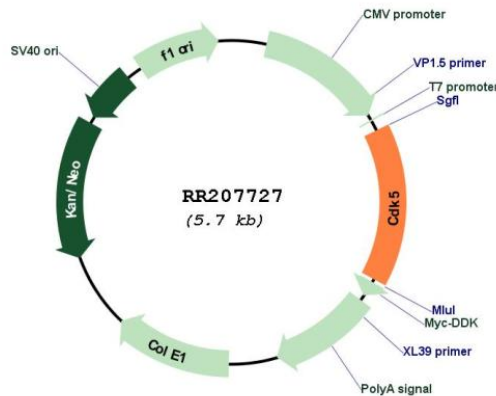
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_080885

ORF Size:	876 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_080885.1 , NP_543161.1
RefSeq Size:	1178 bp
RefSeq ORF:	879 bp
Locus ID:	140908
UniProt ID:	Q03114
Cytogenetics:	4q11
MW:	33.3 kDa
Gene Summary:	serine/threonine kinase involved in synaptic regulation and neuronal development; phosphorylates synaptic protein Pctaire1; regulates acetylcholine receptor expression [RGD, Feb 2006]