

Product datasheet for **RR201825**

Cdkl2 (NM_001012035) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdkl2 (NM_001012035) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdkl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR201825 representing NM_001012035
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAAAGTATGAGAACCTAGGATTGGTTGGAGAGGGGAGTTACGGAATGGTGTGAAGTGTAGGAACA
 AAGACAGTGGAAAGATTGTGGCCATTAAGAAGTCTTAGAGAGCGATGACGATAAAAATGGTTAAGAAGAT
 CGCTATGCGAGAAATCAAGTTACTAAAGCAACTGCGGCATGAAAAATTTGGTGAACCTGTTGGAAGTGTGT
 AAGAAAAAGAAGCGTTGGTACTTAGTCTTTGAATTTGTTGACCACACGATTCTTGATGACTTGAAACTCT
 TCCCAAATGGACTAGACTATCAAGTAGTTCAAAGTATTTGTTTCAGATCATAATGGAATTGGATTTTG
 CCATAGTCACAATATCATAACACAGAGATATAAACCCGAGAATATATTAGTCTCACAGTCTGGCGTTGTA
 AAATTATGTGACTTTGGATTGCGACGGACATTGGCGGCTCCTGGGGAGGTTTACTACTGACTATGTGGCCA
 CCCGGTGTACAGAGCTCCAGAAGTCTGGTGGTGTCAAGTACGGCAAGGCTGTTGATATCTGGGC
 CATTGGTTGTCTGGTATTGAGATGCTTATGGGGCAACCACTATTTCCAGGAGAATCCGATATTGATCAG
 CTGCATCATATTATGACATGTTTAGGTAATTTAATTTCAAAGACACCAGGAGCTATTTTATAAAAAATCCTG
 TGTTTGCTGGAGTAAGGTTGCCTGAGATCAAAGACATAGAAGCAGAGCCTCTCGAGAGCCGCTATCCGAA
 GCTCCCTGAAGTTGTGATCAGTTTAGCAAAGAAATGCTTGACATTGATCCAGACAAAAGGCCCTTGTGT
 GCTGACCTTACACCATGATTTCTTTCAAATGGATGGATTTGCTGAGAGGTTTTCTCAAGAATTGCAGT
 TAAAAATAGAGAAAGATGCCAGGAATAATCTTTACCTAAAAAGTTTCAAATCAGAAAGAAAAGAAAAAGA
 CGATGCCTTAGGTGAAGAAAGAAAAACACTTGTGGTACAGGATACCAATGCTGATCCCAAACCTAAGGAT
 TCTAAAGTGTAAAAGTAAAGGGGTCAAAAATCGATGTCGAGAAAAGTAAAAAGGAACTAGAGCTTCAA
 ATGGCAGCTGTCTCCATGACAACGGGACAAGCCACAAGGCTTGTCTTCCACAAGCCTCAGAGATTGCAG
 CAATGTACCATTGATCACCCAAAGGAATCCAGGCACAGCGATTCTCCCTCACACACAATCTTTCTGCA
 GTTGCTCCTGGTATCAACGCTGCAATGGGGACTATTCTGGAGTTCAGAATTACAGAGTGGACGAGAAAA
 CTAAGAAATACTGTAATCCTTTTGTAAACCAAGCCAGCCTTCTCCATCAGGGATTTATAATATGAATGT
 GAGCGCATCCGTAAGTAAGTCCCTCTGCCACGAAAGAGCAAGCACTCGCCGCCTCTAGACCTCGCCGTA
 AGCATGGGCGGAGAAGAGTTAAGCTTTACTTGGAGACAGAGAGTGAAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201825 representing NM_001012035
 Red=Cloning site Green=Tags(s)

MEKYENLGLVGEESYGMVMKCRNKDSGRIVAIAIKKFLESDDDKMVKKIAMREIKLLKQLRHENLVNLLVC
 KKKKRWLVFEFVDHTILDDLKLFNGLDYQVVQKYLFIINGIGFCHSHNIIHRDIKPENILVSQSGVV
 KLCDFGFARTLAAPGEVYTDYVATRWYRAPELLVGDVYKGAVDIWAIGCLVIEMLMGQPLFPGESDIDQ
 LHHIMTCLGNLIPRHQELFYKNPVFAGVRLPEIKDIEAEPLSRYPKLEPVVISLAKKCLHIDPDKRPLC
 ADLLHHDFQMDGFAERFSQELQLKIEKDARNNSLPKFKQIRKKEKDDALGEERKTLVVQDTPADPKTKD
 SKVLKVKGSKIDVEKTEKTRASNGSCLHDNGTSHKGLSSTSLRDCSNVTIDHPRNPGTAIPLTHNLSA
 VAPGINAAMGTIPGVQNYRVDEKTKKYCNPFVKPSQSPSPGIYNNMVSASVSNCPPLPKSKHSPPLDLAV
 SMGARRVKLYLETESET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001012035

ORF Size: 1521 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:

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_001012035.1](#), [NP_001012035.1](#)
RefSeq Size: 2132 bp

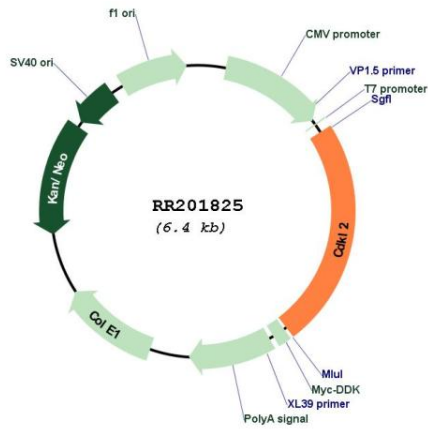
RefSeq ORF: 1524 bp

Locus ID: 305242

UniProt ID: [Q5XIT0](#)
Cytogenetics: 14p22

MW: 57.1 kDa

Product images:



Circular map for RR201825