

Product datasheet for **MR218219**

Cdk8 (NM_153599) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk8 (NM_153599) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk8
Synonyms:	MGC37111
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218219 representing NM_153599
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTATGACTTTAAAGTGAAGCTGAGCAGCGAGCGGGAGCGGGTTCGAGGACCTGTTGAATACGAGG
 GCTGCAAAGTTGGTCGAGGCACCTACGGGCACGCTACAAGCGAAGAGGAAAGATGGGAAGGACGATAA
 AGACTACGCTTTAAAACAAATAGAAGGAACTGGAATTTCTATGTCGCGCATTGCAGAGAGATAGCATTACTC
 CGAGAGCTTAAGCACCCAAACGTCATCTCCCTTCTGAAGGTGTTTCTGTCTCATGCTGATCGAAAGTAT
 GGCTTCTCTTTGACTATGCTGAGCATGACCTCTGGCATAAATTAAGTTTCACAGAGCTTCGAAAGCCAA
 CAAGAAGCCAGTTCAGTTACCTCGGGGAATGGTGAAGTCACTGTTGTACCAGATCCTAGATGGGATTCAC
 TATCTTCATGCCAACTGGGTGTTGCACAGGGATTTGAAACCTGCTAATATTTTAGTTATGGGTGAAGGTC
 CTGAGCGAGGAAGAGTAAAAATTGCTGACATGGGCTTTGCCGATTATTTAATTCACCTTTGAAGCCTTT
 AGCAGATTTGGATCCAGTGGTGTAAACATTCTGGTACCGAGCTCCAGAATTACTCCTCGGAGCGCGACAT
 TATACCAAAGCAATTGATATTTGGGCTATAGGGTGTATATTTGCAGAACTACTAACGTCAGAACCAATAT
 TCACTGTGACAAGAGGACATCAAACTAGTAATCCTTATCACCATGACCAGCTGGACAGAATATTCAA
 TGTAATGGGATTCCTGCAGATAAAGATTGGGAAGATATAAAAAAGATGCCCGAACATTCACATTAATG
 AAAGATTTCAGAAGAAATACGTATACCAATTGCAGCCTTATCAAGTATATGGAAAAGCATAAAGTTAAAC
 CCGATAGTAAAGCATTCCACTTGCTTCAGAAGTTGCTCACTATGGACCAATAAAGCGAATTACCTCAGA
 GCAGGCCATGCAGGACCCCTACTTCTAGAAGACCCACTCCCACGTGAGATGTTTTCGCCGGTTGTCAG
 ATCCCATATCCCAAACGAGAATTTTTAACAGAAGAAGAGCCTGATGAGAAAAGGAGACAAAAGACCCAGC
 AGCAGCAGCAGGGCAACAACCACACTAACGGAACCTGGCCATCCGGGGAACCAGGACAGCGGCCACGCACA
 GGGGCCCCCTTGAAAAAGTGAGAGTTGTCCTCCTACCCTACCTCAGGTGGACTCATCATGACCTCC
 GACTATCAGCGTTCCAATCCACATGCTGCTTATCCCAACCCTGGACCAAGCACATCACAGCCCCAGAGCA
 GCATGGGATACTCAGCTACCTCCAGCAGCCTCCACAGTACTCACATCAGACACATCGGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218219 representing NM_153599
 Red=Cloning site Green=Tags(s)

MDYDFKVKLSSERERVELDFEYEGCKVGRGTYGHVYKAKRKDGKDDKDYALKQIEGTGISMSACREIAL
 RELKHPNVISLLKVFLSHADRKVWLLFDYAEHDLWHIIKFHRASKANKKPVQLPRGMVKSLLYQILDGIH
 YLHANWVLRDLKPANILVMGEGPERGRVKIADMGFARLFNSPLKPLADLDPVVVTFWYRAPELLLGARH
 YTKAIDIWAIGCIFAELLTSEPIFHCRQEDIKTSNPYHHDQLDRIFNVMGFADKDWEDIKKMPHSTLM
 KDFRRNTYTNCSLIKYMEKHVKPDSKAFHLLQKLLTMDPIKRITSEQAMQDPYFLEDPLPTSDVFAGCQ
 IPYPKREFLTEEEPDEKGDKKTQQQQGNNHTNGTGHPGNQDSGHAQGPPLKQVVRVPPPTTSSGGLIMTS
 DYQRSNPAAAYPNPSTSQPQSSMGYSATSQQPPQYSHQTHRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9010_c04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_153599

ORF Size: 1392 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.

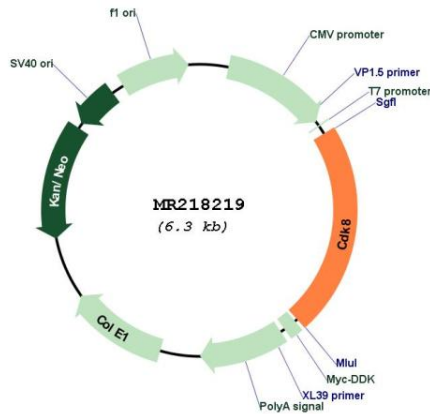
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
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_153599.4](#)
RefSeq Size: 2586 bp
RefSeq ORF: 1395 bp
Locus ID: 264064
UniProt ID: [Q8R3L8](#)
Cytogenetics: 5 G3
MW: 53.7 kDa

Gene Summary: Component of the Mediator complex, a coactivator involved in regulated gene transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors. Phosphorylates the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNAP II), which may inhibit the formation of a transcription initiation complex. Phosphorylates CCNH leading to down-regulation of the TFIIF complex and transcriptional repression. Recruited through interaction with MAML1 to hyperphosphorylate the intracellular domain of NOTCH, leading to its degradation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218219