

Product datasheet for **RC212592**

CDK8 (NM_001260) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDK8 (NM_001260) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDK8
Synonyms:	IDDHBA; K35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC212592 representing NM_001260
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTATGACTTTAAAGTGAAGCTGAGCAGCGAGCGGGAGCGGGTTCGAGGACCTGTTGAATACGAGG
 GCTGCAAAGTTGGCCGAGGCACCTTATGGTCACGCTACAAGCCAAGAGGAAAGATGGGAAGGATGATAA
 AGACTATGCTTTAAAACAAATAGAAGGAACTGGGATCTCTATGTCGGCATGTAGAGAAATAGCATTACTT
 CGAGAGCTTAAGCATCCAAACGTCATTTCTCTTCAAAGGTGTTTCTGTCTCATGCTGATAGGAAGGTGT
 GGCTTCTGTTGACTATGCTGAACATGACCTCTGGCATAAATCAAGTTTCACAGAGCTTCTAAAGCAA
 CAAGAAGCCAGTTCAGTTACCTCGGGGAATGGTGAAGTCACTATTATATCAGATCCTAGATGGTATTAC
 TACCTGCATGCTAACTGGGTGTTGCACAGAGATTTGAAACCTGCTAATATTTTAGTTATGGGTGAAGGTC
 CTGAGCGAGGAAGAGTAAAAATTGCTGACATGGGCTTTGCCGATTATTTAATTCACCTTTGAAGCCTTT
 AGCAGATTTGGATCCAGTGGTTGTACATTCTGGTACCGAGCCCCTGAACTACTTCTGGAGCAAGGCAT
 TATACCAAAGCTATTGATATTTGGGCTATAGGGGTATATTTGCAGAAGCTACTAAGTCCAGAACCAATAT
 TCACTGTCGACAAGAGGACATCAAACAGTAATCCTTATCACCATGACCAGCTGGACAGAATATTCAA
 TGTAATGGGATTTCTGCAGATAAAGATTGGGAAGATATAAAAAAGATGCCTGAACATTCACATTAATG
 AAAGATTTCAGAAGAAATACGTATACCAACTGCAGCCTTATCAAGTATATGGAAAAACATAAAGTTAAAC
 CAGATAGTAAAGCATTCCACTTGCTTCAAGAGCTGCTTACCATGGACCAATAAAGCGAATTACCTCAGA
 ACAGGCTATGCAGGACCCTATTTCTTAGAAGACCCACTTCTACATCAGACGTTTTTCCCGTTGTCAA
 ATCCCTTACCCAAAACGAGAATTTTAAACGGAAGAAGAACCTGATGACAAAAGGAGACAAAAACCAGCAGC
 AGCAGCAGGGCAATAACCACACTAATGGAAGTGGCCACCAGGGGAATCAAGACAGCAGTCACACACAGGG
 ACCCCCGTTGAAGAAAGTGAGAGTTGTTCTCCTACCCTACCCTACCTCAGGTGGACTTATCATGACCTCAGAC
 TATCAGCGTTCCAATCCACATGCTGCCTATCCCAACCCTGGACCAAGCACATCACAGCCGAGAGCAGCA
 TGGGATACTCAGTACTCCAGCAGCCTCCACAGTACTCACATCAGACACATCGGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212592 representing NM_001260
 Red=Cloning site Green=Tags(s)

MDYDFKVKLSSERERVELDFEYEGCKVGRGTYGHVYKAKRKDGKDDKDYALKQIEGTGISMSACREIAL
 RELKHPNVISLQKVFLSHADRKVWLLFDYAEHDLWHIIKFHRASKANKKPVQLPRGMVKSLLYQILDGIH
 YLHANVWLHRDLKPANILVMGEGPERGRVKIADMGFARLFNSPLKPLADLDPVVVTFWYRAPELLLGARH
 YTKAIDIWAIGCIFAELLTSEPIFHCRQEDIKTSNPYHHDQLDRIFNVMGFADKDWEDIKMPEHSTLM
 KDFRRNTYTNCSLIKYMEKHVKPDSKAFHLLQKLLTMDPIKRITSEQAMQDPYFLEDPLPTSDVFAGCQ
 IPYPKREFLTHEEPDDKGDKNQQQQGNNHTNGTGHPGNQDSSHTQGPPLKVRVVPPTTSSGGLIMTSD
 YQRSNPHAAYPNPGPSTSQPQSSMGYSATSQPPPYSHQTHRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6104_e10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001260

ORF Size: 1389 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001260.3](#)

RefSeq Size: 1772 bp

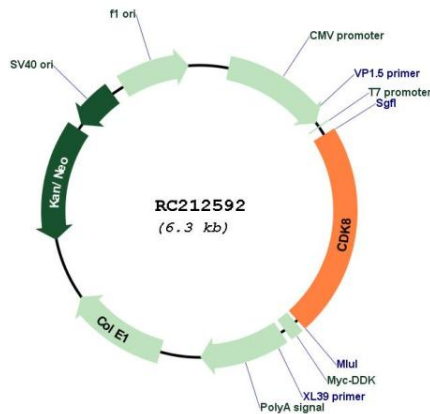
RefSeq ORF: 1395 bp

Locus ID: 1024

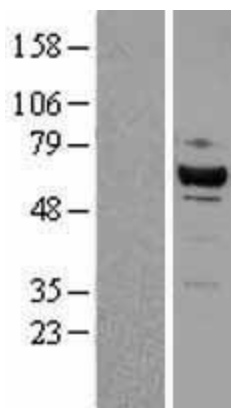
UniProt ID: [P49336](#)
Cytogenetics: 13q12.13
Domains: pkinase, TyrKc, S_TKc
Protein Families: Druggable Genome, Protein Kinase, Transcription Factors
MW: 53.1 kDa

Gene Summary: This gene encodes a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are known to be important regulators of cell cycle progression. This kinase and its regulatory subunit, cyclin C, are components of the Mediator transcriptional regulatory complex, involved in both transcriptional activation and repression by phosphorylation of the carboxy-terminal domain of the largest subunit of RNA polymerase II. This kinase regulates transcription by targeting the cyclin-dependent kinase 7 subunits of the general transcription initiation factor IIH, thus providing a link between the Mediator complex and the basal transcription machinery. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]

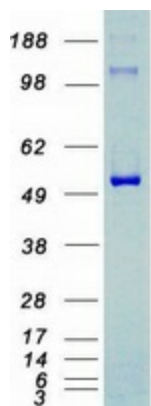
Product images:



Circular map for RC212592



Western blot validation of overexpression lysate (Cat# [LY400507]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212592 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CDK8 protein (Cat# [TP312592]). The protein was produced from HEK293T cells transfected with CDK8 cDNA clone (Cat# RC212592) using MegaTran 2.0 (Cat# [TT210002]).