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Product datasheet for SC119344

CDK9 (NM_001261) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDK9 (NM_001261) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDK9
Synonyms:	C-2k; CDC2L4; CTK1; PITALRE; TAK
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001261 edited ATGGCAAAGCAGTACGACTCGGTGGAGTGCCCTTTTTGTGATGAAGTTTCCAAATACGAG AAGCTCGCCAAGATCGGCCAAGGCACCTTCGGGGAGGTGTTCAAGGCCAGGCACCGCAAG ACCGGCCAGAAGGTGGCTCTGAAGAAGGTGCTGATGGAAAACGAGAAGGAGGGGTTCCCC ATTACAGCCTTGCGGGAGATCAAGATCCTTCAGCTTCTAAAACACGAGAATGTGGTCAAC TTGATTGAGATTTGTCGAACCAAAGCTTCCCCCTATAACCGCTGCAAGGGTAGTATATAC CTGGTGTTCGACTTCTGCGAGCATGACCTTGCTGGGCTGTTGAGCAATGTTTTGGTCAAG TTCACGCTGTCTGAGATCAAGAGGGTGATGCAGATGCTGCTTAACGGCCTCTACTACATC CACAGAAACAAGATCCTGCATAGGGACATGAAGGCTGCTAATGTGCTTATCACTCGTGAT GGGGTCCTGAAGCTGGCAGACTTTGGGCTGGCCCGGGCCTTCAGCCTGGCCAAGAACAGC CAGCCCAACCGCTACACCAACCGTGTGGTGACACTCTGGTACCGGCCCCCGGAGCTGTTG CTCGGGGAGCGGGACTACGGCCCCCCCATTGACCTGTGGGGTGCTGGGTGCATCATGGCA GAGATGTGGACCCGCAGCCCCATCATGCAGGGCAACACGGAGCAGCACCAACTCGCCCTC ATCAGTCAGCTCTGCGGCTCCATCACCCCTGAGGTGTGGCCAAACGTGGACAACTATGAG CTGTACGAAAAGCTGGAGCTGGTCAAGGGCCAGAAGCGGAAGGTGAAGGACAGGCTGAAG GCCTATGTGCGTGACCCATACGCACTGGACCTCATCGACAAGCTGCTGGTGCTGGACCCT GCCCAGCGCATCGACAGCGATGACGCCCTCAACCACGACTTCTTCTGGTCCGACCCCATG CCCTCCGACCTCAAGGGCATGCTCTCCACCCACCTGACGTCCATGTTCGAGTACTTGGCA CCACCGCGCCGGAAGGGCAGCCAGATCACCCAGCAGTCCACCAACCAGAGTCGCAATCCC GCCACCACCAACCAGACGGAGTTTGAGCGCGTCTTCTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001261 unedited
TGTAATACGACTCACTATAGGGCGGCCGCNGAATCGGCACGAGGCTCCGGCGCCCCGGCT
CCCCGCGCCCCCGATCGGGGCCGCCGCTAGTAGTGGCGGCGGCGGAGGCGGGGGCAGCGG
CGGCGGCGGCGGAGGCGCCTCTGCAGCTCCGGCTCCCCCTGGCCTCTCGGGAACTACAAG
TCCCAGGGGGCCTGGCGGTGGGCGGCGGGCGGAAGAGGCGGGGTCGGCGCCGCGAGGCCG
GAAGTGGCCGTGGAGGCGGAAGTGGCGCGGCCGCGGAGGGGCCTGGAGTGCGGCGGCGGC
GGGACCCGGAGCAGGAGCGGCGGCAGCAGCGACTGGGGGCGGCGGCGGCGCGTTGGAGGC
GGCCATGGCAAAGCAGTACGACTCGGTGGAGTGCCCTTTTTGTGATGAAGTTTCCAAATA
CGAGAAGCTCGCCAAGATCGGCCAAGGCACCTTCGGGGAGGTGTTCAAGGCCAGGCACCG
CAAGACCGGCCAGAAGGTGGCTCTGAAGAAGGTGCTGATGGAAAACGAGAAGGAGGGGTT
CCCCATTACAGCCTTGCGGGAGATCAAGATCCTTCAGCTTCTAAAACACGAGAATGTGGT
CAACTTGATTGAGATTTGTCGAACCAAAGCTTCCCCCTATAACCGCTGCAAGGGTAGTAT
ATACCCTGGTGTTCGACTTCTGCGAGCATGACCTTGCTGGGCTGTTGAGCAATGTTNTGG
TCAAGTTCACGCTGTCTGAGATCAAGAAGGTGATGCAGATGCTGCTTAACGGCCTCTACT
ACATCCACAGAAACAAGATCCTGCATAGGGACATGAAGGCTGCTAATGTGCTTACACTCG
TGGATGGGGTCCTGAGCTGGCGACTTTGGGCTGGCCCGGNCCTTCACCTGGCAAGAACAG
CAGCCCACCGTACACACCGGTGTGTGACCTCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001261 unedited
TACTTGGGGAAAAAATTTACAAAAATAAAATTNCAACTTTTTTAATTCTAACGGAACCAA
ACTGTGCCCAGGAATGTCTCCAAACAATGGAACCAAAAGAAACACAGTAAAATTCTCCTG
TTGAAGAAACCAAGAGTTTGTGCCAGCCCCAGTGTTTCTGAGGGTTAGGCCAAAAACAGC
CCATTCCTGAGGCGAGCCCTGTCCCCACGCAGGGTTCTCAGCCCGAGAATAGGATTGTGG
GTGGGTGAGGGACCTGTCCCCTCTTCCACCACGCCGGGAGCTCTTAGAAAAAGTCACTGG
TGGGCGAGCCCATCCTCCTACCCCATGGAAACCCTCTGGGAACCATCCAGAAAACCAGCA
AGGACAAGACAGCTCCAGTGCCCTCCTGGTCTCTCAGCCAATGCTCCACTCCAGTCCACT
CAGCGGGCTGCTCCCAGAGCCCAGGGTGGGGATTAAATAAAATATGCATGAGAGATATAA
ACTCAAATGCCCTGTCTCCACGATGCAAGTCACATAGCAGAAGAAAAAAAACACAAGAGC
CCTAGTGGCAAGCGCCGGCCCTCAGAAGACGCGCTCAAACTCCGTCTGGTTGGTGGTGGC
GGGATTGCGACTCTGGTTGGTGGACTGCTGGGTGATCTGGCTGCCCTTCCGGCGCGGTGG
TGCCAAGTACTCCAACATGGACGTCAGGTGGGGTGGAGAGCATGCCCTTTGAGTCCGAGG
GCATGGGGTCGGACCAAANAAGTCGTGGTTGAAGGCGTCATCGCTGTCCATGCGCTGGGC
CAGGTCCAACACCACCACCTTTGTCATGAGGGCCAATGCCTATGGGTCACGCCATAAGCC
CTTAAACTGGCCTTTACCTTCCCCTTTTGGCCCTTGACCAGCTCAGCTTTTTCCTCCGCT
CATAAGTGTTCACCTTGGGCCACACCTCCGGGGTGAAGGGAC

Restriction Sites: NotI-NotI

ACCN: NM_001261

Insert Size: 1910 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:	NM_001261.2, NP_001252.1
RefSeq Size:	1791 bp
RefSeq ORF:	1119 bp
Locus ID:	1025
UniProt ID:	P50750
Cytogenetics:	9q34.11
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Gene Summary:	The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2, and known as important cell cycle regulators. This kinase was found to be a component of the multiprotein complex TAK/P-TEFb, which is an elongation factor for RNA polymerase II-directed transcription and functions by phosphorylating the C-terminal domain of the largest subunit of RNA polymerase II. This protein forms a complex with and is regulated by its regulatory subunit cyclin T or cyclin K. HIV-1 Tat protein was found to interact with this protein and cyclin T, which suggested a possible involvement of this protein in AIDS. [provided by RefSeq, Jul 2008]