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Product datasheet for SC120103

CDC2L1 (CDK11B) (NM_033490) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC2L1 (CDK11B) (NM_033490) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC2L1
Synonyms:	CDC2L1; CDK11; CDK11-p46; CDK11-p58; CDK11-p110; CLK-1; p58; p58CDC2L1; p58CLK-1; PITSLREA; PK58
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_033490 edited
GCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAA
GCTACTTGTTCTTTTTGCAGCGGCCGCGAATTCGGCACGAGGAGAAGGAGCGCGAGCGGC
GGGCAGAGGAGCGGCGCAAGGAGCGGGAGGCCCGCAGGGAAGTGTCTGCACATCACCGAA
CGATGAGAGAGGACTACAGCGACAAAGTGAAAGCCAGCCACTGGAGTCGCAGCCCGCCTC
GGCCGCCGCGGGAGCGGTTCGAGTTGGGAGACGGCCGGAAGCCAGTAAAAGAAGAGAAAA
TGGAAGAAAGGGACCTGCTGTCCGACTTACAGGACATCAGCGACAGCGAGAGGAAGACCA
GCTCGGCCGAGTCCTCGTCAGCGGAATCAGGCTCAGGTTCTGAGGAAGAAGAGGAGGAGG
AGGAAGAGGAGGAGGAGGAAGGGAGCACCAGTGAAGAATCAGAGGAGGAGGAGGAGGAAG
AGGAAGAGGAGGAGGAGGAGACCGGCAGCAACTCTGAGGAGGCATCAGAGCAGTCTGCCG
AAGAAGTAAGTGAGGAAGAAATGAGTGAAGATGAAGAACGAGAAAATGAAAACCACCTCT
TGGTTGTTCCAGAGTCACGGTTCGACCGAGATTCCGGGGAGAGTGAAGAAGCAGAGGAAG
AAGTGGGTGAGGGAACGCCGCAGAGCAGCGCCCTGACAGAGGGCGACTATGTGCCCGACT
CCCCTGCCCTGTCGCCCATCGAGCTCAAGCAGGAGCTGCCCAAGTACCTGCCGGCCCTGC
AGGGCTGCCGGAGCGTCGAGGAGTTCCAGTGCCTGAACAGGATCGAGGAGGGCACCTATG
GAGTGGTCTACAGAGCAAAAGACAAGAAAACAGATGAAATTGTGGCTCTAAAGCGGCTGA
AGATGGAGAAGGAGAAGGAGGGCTTCCCGATCACGTCGCTGAGGGAGATCAACACCATCC
TCAAGGCCCAGCATCCCAACATCGTCACCGTTAGAGAGATTGTGGTGGGCAGCAACATGG
ACAAGATCTACATCGTGATGAACTATGTGGAGCACGACCTCAAGAGCCTGATGGAGACCA
TGAAACAGCCCTTCCTGCCAGGGGAGGTGAAGACCCTGATGATCCAGCTGCTGCGTGGGG
TGAAACACCTGCACGACAACTGGATCCTGCACCGTGACCTCAAGACGTCCAACCTGCTGC
TGAGCCACGCCGGCATCCTCAAGGTGGGTGACTTCGGGCTGGCGCGGGAGTACGGATCCC
CTCTGAAGGCCTACACCCCGGTCGTGGTGACCCTGTGGTACCGCGCCCCAGAGCTGCTGC
TTGGTGCCAAGGAATACTCCACGGCCGTGGACATGTGGTCAGTGGGTTGCATCTTCGGGG
AGCTGCTGACTCAGAAGCCTCTGTTCCCCGGGAAGTCAGAAATCGATCAGATCAACAAGG
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CAGTCAAGAAGATGACCTTCAGCGAGCACCCCTACAACAACCTCCGCAAGCGCTTCGGGG
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GGAGGATCAGCGCTGAGGACGGCCTCAAGCATGAGTATTTCCGCGAGACCCCCCTCCCCA
TCGACCCCTCCATGTTCCCCACGTGGCCCGCCAAGAGCGAGCAGCAGCGTGTGAAGCGGG
GCACCAGCCCGAGGCCCCCTGAGGGAGGCCTGGGCTACAGCCAGCTGGGTGACGACGACC
TGAAGGAGACGGGCTTCCACCTTACCACCACGAACCAGGGGGCCTCTGCCGCGGGCCCCG
GCTTCAGCCTCAAGTTCTGAAGGTCAGAGTGGACCCCGTCATGGGGAGAACTCAGCCGGG
ACCACAGGCGTGGCTACTGCGGCTGGAGCTGCGATGAGACTCGGAACTCCTCGTCTTACT
TTGTGCTCCATGTTTTGTTTTTGTATTTTGGTTTGTAAATTTGTAGAATTAAATCATTTT
CCTTGTTGTGGAGGAAAGAGCTGTGTTTTCTCCGTGACTTGCCCAGGGCGGAGAGGGTGG
GCATCTTCGGGTGCCCACGTGGGGCAGCACAAACCTCCACACACCCTCTCCCACTCTCGA
CACGCACGGGGCTGGCTGGGCCGTGATTTGGAAAGGAACTGGTGGGAGCCGGGTGGATTG
TTTAATCTTCGGAGCTGGAGACCTGTTTCTGTGTTGGGATGAGCGATGCCCTCTTGCCCC
AACCCACTCGTCCAGACCAGCCCTGTCCACACAGGCCCCCGGCCCCCAACCCCCAGCCCC
AGCTGTGCCAGCAGACTCGACAGGTTTTTATACAAGGTTGTTGAGTTTTAAAATGTATTA
AAATATTCTTCGAGAAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTCAT
AGCTGTTTCCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCCAGTGCCT

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_033490 unedited
GAGGGGNGGGAGGAAANANNNNNNNNTNTNNNNNNNATTTCTTACACCCGCCCGTTGNCG
CAAAGGGCGGTAGGCGTGTACGGTGGGNAGTCTATATAAGCAGAGCTCATTTAGGTGACA
CTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGCGAATTCGGCACGAGGAGAAG
GAGCGCGAGCGGCGGGCAGAGGAGCGGCGCAAGGAGCGGGAGGCCCGCAGGGAAGTGTCT
GCACATCACCGAACGATGAGAGAGGACTACAGCGACAAAGTGAAAGCCAGCCACTGGAGT
CGCAGCCCGCCTCGGCCGCCGCGGGAGCGGTTCGAGTTGGGAGACGGCCGGAAGCCAGTA
AAAGAAGAGAAAATGGAAGAAAGGGACCTGCTGTCCGACTTACAGGACATCAGCGACAGC
GAGAGGAAGACCAGCTCGGCCGAGTCCTCGTCAGCGGAATCAGGCTCAGGTTCTGAGGAA
GAAGAGGAGGAGGAGGAAGAGGAGGANGNNGAANGNNNNNCANNGAANAANAAAGGAGGA
GGAGGAGGAANAGGAANANAAAAAAAAAAAAAGAAGAAAGGGGGAAAGAGAAAAAAAAAGA
AGAAAAAANAAGGAAGAAGAGGAGCCGAGAGAAAAAGAGAAGAAAAAAAAGAAAAAGAAA
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AGAAAAAGAAAAAANAGAGGAGGGAAAGGACCAACCANNAGCANAAAAAGACGAGACCCC
ACCCCCCCCNCGCCCCCCGCAGCACCCCCACCCACCACGCCACCCACCCCCAAACAGACA
CCGCCACCCCCCGCCGCGCCACCCCCCAGACCGGCCCGAGAACACCCACACACGCCAACC
CCCCAGCCCCCCCCCCCCCGCCCGCCGCCCCCCCCACACCCCGGCCCCCGCGCCACACGC
AGACCCCCCCCCCCACCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_033490 unedited
CATCCGATGTACGCGGCCGCNCTCNANGATCGAGTTTTTTTTTTTTTTTTTCTCGAAGA
ATATTTTAATACATTTTAAAACTCAACAACCTTGTATAAAAACCTGTCGAGTCTGCTGGC
ACAGCTGGGGCTGGGGGTTGGGGGCCGGGGGCCTGTGTGGACAGGGCTGGTCTGGACGAG
TGGGTTGGGGCAAGAGGGCATCGCTCATCCCAACACAGAAACAGGTCTCCAGCTCCGAAG
ATTAAACAATCCACCCGGCTCCCACCAGTTCCTTTCCAAATCACGGCCCAGCCAGCCCCG
TGCGTGTCGAGAGTGGGAGAGGGTGTGTGGAGGTTTGTGCTGCCCCACGTGGGCACCCGA
AGATGCCCACCCTCTCCGCCCTGGGCAAGTCACGGAGAAAACACAGCTCTTTCCTCCACA
ACAAGGAAAATGATTTAATTCTACAAATTTACAAACCAAAATACAAAAACAAAACATGGA
GCACAAAGTAAGACGAGGAGTTCCGAGTCTCATCGCAGCTCCAGCCGCAGTAGCCACGCC
TGTGGTCCCGGCTGAGTTCTCCCCATGACGGGGTCCACTCTGACCTTCAGAACTTGAGGC
TGAAGCCGGGGCCCGCGGCAGATGCCCCCTGGTTCGTGGTGGTAAGGTGGAAGCCCGTCT
CCTTCAAGTCGTCGTCACCCAGCTGGCTGTAGCCCAGGCCTCCCTCAGGGAGCCTCGGGC
TGGTGCCCCGCTTACACGCTGCTGCTCGCTCTTGGCGGGCACGTGGGGAACATGGAGGGG
TCNATGGGGAGGGGGGGCTCGCGGAAATACTCATGCTGAGGGCGTCCTCAACGCTGATCC
TCTCCCGGGGAATTAGTTAAGGACTTGTCATGAGGTCAAAACCTGTTTGAAACC

Restriction Sites: NotI-NotI

ACCN: NM_033490

Insert Size: 2500 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_033490.1, NP_277025.1
RefSeq Size:	2349 bp
RefSeq ORF:	1698 bp
Locus ID:	984
UniProt ID:	P21127
Cytogenetics:	1p36.33
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene encodes a member of the serine/threonine protein kinase family. Members of this kinase family are known to be essential for eukaryotic cell cycle control. Due to a segmental duplication, this gene shares very high sequence identity with a neighboring gene. These two genes are frequently deleted or altered in neuroblastoma. The protein kinase encoded by this gene can be cleaved by caspases and may play a role in cell apoptosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014] Transcript Variant: This variant (6) differs in its 5' UTR, uses a downstream start codon, and uses an alternate splice site in its 5' coding region, compared to variant 1. The encoded isoform (6) is shorter, compared to isoform 1.