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Product datasheet for RG222810

CDC2L1 (CDK11B) (NM_033493) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC2L1 (CDK11B) (NM_033493) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDK11B
Synonyms:	CDC2L1; CDK11; CDK11-p46; CDK11-p58; CDK11-p110; CLK-1; p58; p58CDC2L1; p58CLK-1; PK58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG222810 ORF sequence, codon optimized.
Due to the complexity of NM_033493, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGATGAGAAAGACAGCTGGAAGGTAAAAACTCTTGACGAGATACTTCAGGAAAAAAAGCGCCGCA
AGGAACAGGAAGAGAAGGCCGAGATAAAGCGGCTGAAGAACTCAGACGATAGAGATTCAAAGCGGGACAG
CCTGGAAGAGGGTGAGTTGAGGGATCATTGTATGGAAATCACAATTCGAAACAGTCCGTACCGCCGCGAG
GACAGTATGGAAGACCGGGGAGAGGAGGATGACTCATTGGCCATTAAGCCTCCTCAGCAGATGTCCCGCA
AAGAGAAGGTGCATCATAGGAAAGACGAGAAGCGGAAGGAAAAAAAGCACGCGAGAGTTAAGGAAAAAGA
GCGAGAGCATGAGCGACGGAAAAGGCATCGCGAGGAACAGGATAAAGCCAGGCGCGAGTGGGAACGCCAG
AAGCGCCGCGAAATGGCCAGAGAACATTCTAGAAGAGAGAGAGATAGGCTCGAACAGCTGGAAAGGAAGA
GAGAAAGAGAAAGGAAGATGAGGGAGCAGCAAAAGGAACAGAGGGAGCAAAAGGAAAGAGAGAGACGCGC
GGAAGAGAGGAGAAAAGAAAGAGAAGCAAGACGCGAAGTGAGTGCCCATCACAGAACCATGCGGGAAGAT
TACAGTGATAAAGTCAAGGCTTCCCACTGGTCACGATCCCCGCCCAGGCCACCTAGGGAGCGGTTCGAGC
TGGGAGACGGGCGGAAGCCGGTTAAGGAAGAGAAAATGGAAGAACGAGATCTCCTTAGTGACCTGCAAGA
TATATCTGACTCAGAGAGGAAAACCAGCTCCGCCGAGTCCAGTTCTGCCGAAAGCGGGTCAGGATCAGAG
GAAGAGGAAGAGGAGGAGGAGGAGGAGGAAGAGGGCTCTACAAGCGAGGAGAGCGAAGAGGAAGAGG
AGGAGGAGGAGGAAGAAGAGGAGGAAACTGGTTCTAATTCAGAGGAGGCTTCAGAGCAGTCCGCTGAAGA
GGTGTCCGAAGAGGAGATGTCTGAGGATGAAGAACGGGAGAACGAGAATCACCTCCTGGTGGTGCCAGAA
TCCCGGTTCGATAGAGACAGTGGTGAAAGCGAGGAGGCCGAGGAGGAAGTCGGCGAGGGTACTCCCCAAT
CCTCTGCCTTGACTGAAGGGGACTACGTCCCCGATTCCCCTGCTCTTTCCCCCATCGAGTTGAAGCAGGA
GCTCCCCAAGTATCTGCCAGCCCTTCAGGGCTGCAGAAGTGTGGAGGAGTTTCAATGTCTCAATCGGATA
GAAGAAGGCACCTATGGCGTTGTGTACAGAGCCAAAGACAAGAAAACAGACGAAATCGTTGCCCTGAAGC
GACTGAAAATGGAGAAGGAAAAGGAAGGGTTCCCAATTACGAGCCTCCGCGAGATTAACACCATATTGAA
GGCCCAGCATCCTAACATTGTTACAGTGAGGGAAATAGTGGTGGGCTCCAACATGGACAAAATCTACATA
GTTATGAATTATGTGGAGCACGACCTCAAGTCTCTGATGGAAACAATGAAGCAGCCTTTCCTGCCCGGGG
AGGTGAAAACATTGATGATACAACTTCTGAGAGGGGTCAAACATCTTCACGACAACTGGATCCTGCATCG
AGATCTGAAGACATCTAACCTTCTGCTGTCCCATGCTGGTATCCTGAAGGTGGGAGACTTTGGGCTCGCC
AGAGAGTATGGCAGCCCACTGAAGGCATACACCCCCGTTGTTGTGACCTTGTGGTACCGAGCACCTGAGT
TGCTGCTTGGGGCGAAGGAGTATAGCACCGCCGTGGACATGTGGAGCGTCGGCTGTATCTTCGGCGAACT
GCTGACCCAGAAGCCTTTGTTTCCGGGAAAATCCGAAATCGATCAAATCAATAAGGTGTTTAAAGACCTT
GGGACTCCCTCTGAGAAGATCTGGCCAGGCTATTCTGAGCTCCCAGCAGTTAAGAAGATGACTTTTAGCG
AGCATCCATATAACAACCTCAGGAAACGATTCGGCGCACTCCTCTCAGATCAGGGCTTCGACTTGATGAA
TAAGTTTTTGACCTATTTCCCCGGACGCCGAATCTCTGCGGAAGATGGACTGAAGCATGAGTACTTCCGG
GAGACACCATTGCCCATCGATCCCAGTATGTTCCCGACCTGGCCGGCAAAATCTGAACAGCAGAGGGTGA
AGCGAGGTACCAGTCCTAGACCCCCTGAAGGGGGACTTGGTTACAGCCAGCTGGGAGATGACGACCTCAA
GGAGACAGGTTTCCACCTGACAACTACCAACCAGGGCGCTTCAGCCGCCGGGCCAGGGTTTAGCTTGAAG
TTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

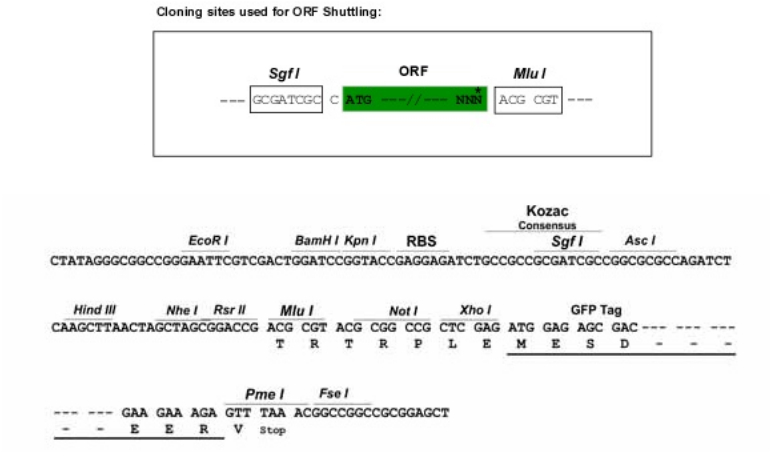
>RG222810 representing NM_033493
Red=Cloning site Green=Tags(s)

MGDEKDSWKVKTLDEILQEKKRRKEQEEKAEIKRLKNSDDRDSKRDSLEEGELRDHCMEITIRNSPYRRE
DSMEDRGEEDDSLAIKPPQQMSRKEKVHHRKDEKRKEKKHARVKEKEREHERRKRHREEQDKARREWERQ
KRREMAREHSRRERDRLEQLERKRERERKMREQQKEQREQKERERRAEERRKEREARREVSAHHRTMRED
YSDKVKASHWSRSPPRPPRERFELGDGRKPVKEEKMEERDLLSDLQDISDSERKTSSAESSSAESGSGSE
EEEEEEEEEEEEGSTSEESEEEEEEEEEEEEETGSNSEEASEQSAEEVSEEEMSEDEERENENHLLVVPE
SRFDRDSGESEEAEEEVGEGTPQSSALTEGDYVPDSPALSPIELKQELPKYLPALQGCRSVEEFQCLNRI
EEGTYGVVYRAKDKKTDEIVALKRLKMEKEKEGFPITSLREINTILKAQHPNIVTVREIVVGSNMDKIYI
VMNYVEHDLKSLMETMKQPFLPGEVKTLMIQLLRGVKHLHDNWILHRDLKTSNLLLSHAGILKVGDFGLA
REYGSPLKAYTPVVVTLWYRAPELLLGAKEYSTAVDMWSVGCIFGELLTQKPLFPGKSEIDQINKVFKDL
GTPSEKIWPGYSELPAVKKMTFSEHPYNNLRKRFGALLSDQGFDLMNKFLTYFPGRRISAEDGLKHEYFR
ETPLPIDPSMFPTWPAKSEQQRVKRGTSPRPPEGGLGYSQLGDDDLKETGFHLTTTNQGASAAGPGFSLK
F

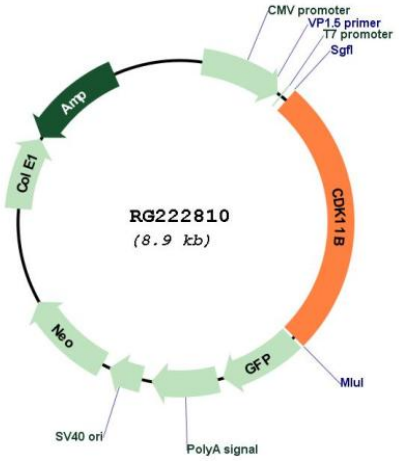
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_033493
ORF Size:	2313 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_033493.1, NP_277028.1
RefSeq Size:	2453 bp
RefSeq ORF:	2315 bp
Locus ID:	984
Cytogenetics:	1p36.33
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]