

Product datasheet for **RG211223**

CDKL1 (NM_004196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDKL1 (NM_004196) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDKL1
Synonyms:	KKIALRE; P42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211223 representing NM_004196 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGAGAAGTATGAAAAATTGGGAAAATTGGAGAAGGATCCTATGGAGTTGTTTTCAAATGTAGAA
ACAGGGACACGGGTGAGATTGTGGCCATCAAGAAGTTTCTGGAATCAGAAGATGACCCTGCATAAAGAA
AATTGCCCTTCGGGAAATCCGAATGCTCAAGCAACTCAAGCATCCCAACCTTGTTAACCTCTGGAAGTC
TTCAGGAGGAAACGGAGGCTTACCTGGTGTGTAATATTGTGACCACACAGTTCTCCATGAGTTGGACA
GATACCAAAGAGGGGTACCAGAACATCTCGTGAAGAGCATAAATTGGCAGACACTGCAAGCTGTAAATTT
TTGCCATAAACACAATTGCATACATAGAGACGTGAAGCCAGAAAATATCCTCATCACGAAACATTCGGTG
ATTAAGCTTTGTGACTTTGGATTTGCTCGGCTTTTGTGACTGGACCGAGTGACTACTATACAGACTACGTGG
CTACCAGTGGTACCGCTCCCCTGAGCTGCTGGTGGGGACACGCAGTACGGCCCCCGGTGGATGTTTTG
GGCAATTGGCTGTGTCTTTGCTGAGCTGCTGTCAGGAGTGCCCTGTGGCCAGGAAAATCGGATGTGGAT
CAGCTGTATCTGATTAGGAAGACCTTGGGGATCTCATTCTAGGCACCAGCAAGTGTGTTAGCACGAATC
AGTACTTCAGTGGAGTAAAAATCCAGACCCTGAAGATATGGAACCACTGAATTAATAATCCCAACAT
CTCTTATCCTGCCCTGGGGCTCCTAAAGGGCTGTCTCCACATGGACCCTACTCAAAGGCTGACATGTGAA
CAGCTGTTGCATACCCATATTTTGA AACATCAGAGAAAATAGAGGATTTGGCAAAGAACAACAACAA
CAACAAGGAAGACCTAAGAAAAGAGCCGAAAGCACCCTGCTTTACAGAAAACATCCAAGTTGCAGTACCT
ACCCAGCTAACTGGCAGCAGCATCCTTCCAGCTTTGGATAATAAGAAGTACTACTGTGATACCAAGAAA
CTTAACCTACCGTTTTCCAAACATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211223 representing NM_004196
Red=Cloning site Green=Tags(s)

MMEKYEKIGKIGEGSYGVVFKCRNRDTGQIVAIAIKKFLSEDDPVIKKIALREIRMLKQLKHPNLVNLLEV
 FRRKRRLHLVFEYCDHTVLHELDRYQRGVPEHLVKSITWQTLQAVNFCHKHNCIHRDVKPENILITKHSV
 IKLCDFGFARLLTGPSDYTDYVATRWYRSPPELLVGDYQYVPPVDVWAIKCVFAELLSGVPLWPGKSDVD
 QLYLIRKTLGDLIPRHQQVFSTNQYFSGVKIPDPEDMEPELEKFPNISYPALGLLKGLHMDPTQRLTCE
 QLLHHPYFENIREIEDLAKEHNKPTRKTLRKSRRKHHCF TETSKLQYLPQLTGSSILPALDNKKYKCDTKK
 LNYRFPNI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004196

ORF Size: 1074 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_004196.5](#)

RefSeq Size: 1177 bp

RefSeq ORF: 1074 bp

Locus ID: 8814

UniProt ID: [Q00532](#)

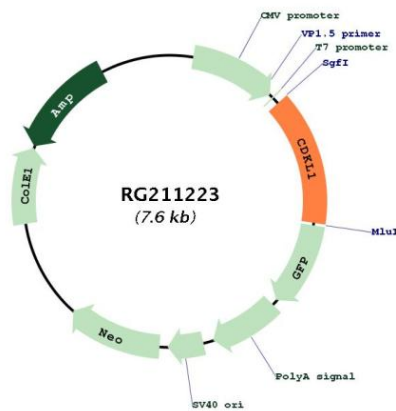
Cytogenetics: 14q21.3

Domains: pkinase

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene product is a member of a large family of CDC2-related serine/threonine protein kinases that accumulates primarily in the nucleus. [provided by RefSeq, Nov 2018]

Product images:



Circular map for RG211223