

Product datasheet for **MG227583**

Cdkn1c (NM_001161624) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdkn1c (NM_001161624) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdkn1c
Synonyms:	AL024410; CDKI; Kip2; p57(kip2); p57Kip2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227583 representing NM_001161624 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCATGTCCGACGTGTACCTCCGCAGCAGAACAGCGATGGAACGCTTGGCCTCCAGCGATACCTTCC
CAGTGATAGCGCGTAGCAGCGCCTGCCGAGCCTCTTCGGCCTGTAGACCACGAGGAGCTGGGCCGCGA
GCTGCGGATGCGCCTGGCCGAGCTGAACGCCGAGGACCAGAACCGCTGGGACTTCAACTCCAGCAGGAT
GTGCCTCTTCGAGGCCCTGGTCTGTGAGTGGATGGAGGTGGACAGCGAGTCTGTGCCCGCTTCTACC
GCGAGACGGTGCAGGTGGGGCGCTGTGCCTGCAGCTGGGGCCCCGGCCACCCCGGTGGCCGTGGCTGT
CATCCCGCTTCTGGGCCGCCGCTGGCAGGCCCCCGACGGCCTAGAGGAGGCGCCTGAGCAGCCGCC
AGCGCCCCAGCCTCGGCCGTGGTCCGCGAGCCACCCACCCGCGACCCCGGCCCGCTTCAGATCTGA
CCTCAGACCCAATTCCGGAGGTGACCTGGTCCGACCTCCGACCCGACTCCGGACCCGATCCCGGACGC
GAACCCGGACGTGGCAGCTCGGGACGGCAGGAACAGGTCCCTGAGCAGGTCTCTGAGCAGGGCGAGGAG
TCGGGTGCTGAGCCGGTGTGAGCTGGAACTGAGCCGCTCTGAGCAGGGCGAGGAGCAGGGCCGAG
AGCCGGTTCGAGGAGAAGGACGAGGAGCCGAGGAGGAGCAGGGCGCGGAGCCGGTTCGAGGAGCAGGGTGC
GGAGCCGGTTCGAGGAGCAGAATGGGAGCCGGTTCGAGGAGCAGGACGAGAATCAAGAGCAGCGCGCCAG
GAGCTGAAGGACACCTCTCTCGGGATTCCAGGAGTCTGCACCCGGGACTGCTCGGCAATGCCA
ACGACTTCTTCGCAAGCGCAAGAGAAGTGCAGGAGGAGAACAAGGCGTCAACGAGCTCCCTCAGGGTG
TCCTCTCAAACGTGGCTCTGGGGTGGCGCGGTGGAGCAGACCCCGCAACGCTCTGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227583 representing NM_001161624
Red=Cloning site Green=Tags(s)

MGMSDVYLRRTAMERLASSDTFPVIARSSACRSLFGPVDHEELGRELMRLAELNAEDQNRWDFNFQQD
 VPLRGPGRQLQWMEVDSESVPAFYRETVQVGRCLQLGPRPPVAVAVIPRSGPPAGEAPDGLLEEPEQPP
 SAPASAVVAEPTPPATPAPASDLTSDPIPEVTLVATSDPTDPIDANPDVATRDGEEQVPEQVSEQGEE
 SGAEPGDELGTEPVSEQGEEQGAEPVEEKDEEPEEEQGAEPVEEQGAEPVEEQNGEPVEEQDENQEQRGQ
 ELKDQPLSGIPGRPAPGTAAANANDFFAKRKRTAQENKASNDVPPGCPSPNVAPGVGAVEQTPRKRLR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001161624

ORF Size: 1044 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_001161624.1](#), [NP_001155096.1](#)

RefSeq Size: 1952 bp

RefSeq ORF: 1047 bp

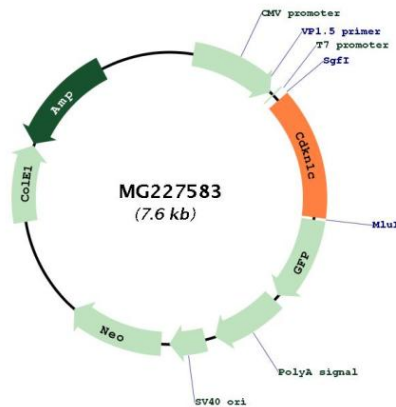
Locus ID: 12577

UniProt ID: [P49919](#)

Cytogenetics: 7 88.22 cM

Gene Summary: Potent tight-binding inhibitor of several G1 cyclin/CDK complexes (cyclin E-CDK2, cyclin D2-CDK4, and cyclin A-CDK2) and, to lesser extent, of the mitotic cyclin B-CDC2. Negative regulator of cell proliferation. May play a role in maintenance of the non-proliferative state throughout life.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227583