

Product datasheet for MR215252

Cacul1 (NM_001172096) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacul1 (NM_001172096) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacul1
Synonyms:	2700078E11Rik; 2810417M16Rik; 9830127L17Rik; AI450346; D130033C15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215252 representing NM_001172096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGAGGAGAGCATGGAGGAGGAGAAATGCTCACCTACGAGGCAATGATGGACGACCAGAATCACAACA
ACTGGGAGGCCGCGGACAGTTTCGCCAGCCTCCGCCGGCCCGCCGCTGCCCGCCGCGCCGCGC
GCGGCCCTCGTCGTCCATCCCGGATCCAGGCCGAGAATCCCGGGGGGACAGCTGCTGGTGTGCACGCG
GGCTCCATGGAGAGGAAGGTCCTAAGGAAGGGCTCCCGATGGGGCTCCGCCCTTGCCGGAACCAAACG
GGGTGATCATGATGTTGAAGAGCTGCGACGACGCCGCGGTGGCCAAGACGGCCCTGCCCCACCTC
CAGCTCCACTATCAACATCAACACCTCCACCTCCAAGTTCCTAATGAATGTTATAACAATTGAAGATTAT
AAGAGCATACTGGCCAAAATTAGATGGTGCCATAGATCAACTTTAAACCCAGAGTCTGGTGACTATA
TACCTATATCCTATGAACAGATTTACAGTTGTGTGATAAGTGTGTGTGCCAGCAGCACTCAGAACAGAT
GTACAGTGATCTGATTAATAAATAACAGCCACTTAGAGCGAGTCTCCAAGGAGCTGCAGGCCAGCCCT
CCAGACCTCTATATTGAAAGATTTAATATAGCTCTGGGACAGTATATGGGAGCATTGCAGAGCATCGTGC
CTCTTTTCATATATGAATAAGTTTTACATAGAACTAAGCTTAACAGAGACTAAAAGATGACCTTAT
AAAAGTGTACGGAACATGTTGCAGAGAAGCACATTTACAGCCTAATGCAATGGGTTTCAGATGGCTCCG
ACATTGTTTTCTAAGTTTATTCCAACATTTCTCCCGGCTGTGGAATCTGAATTTCTGAGTACGCTG
CCAAGATCAAAAGCTTCAAAGAGAATTATACAGAACGGTTTTACCAGAGGTGATCAGTCCCGGAAGAG
AGCTGGAGATGAGTTGGCTTATAACAGTCCATCTGCTTGTGCAAGTTCCAGGGGTATAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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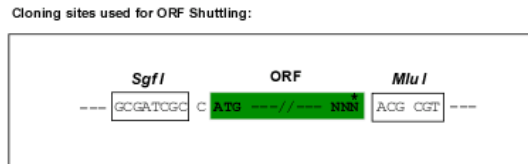
Protein Sequence: >MR215252 representing NM_001172096
Red=Cloning site Green=Tags(s)

MEESMEEEEMLTYEAMDDQNHNNWEAAADSFQPPAPPLPPPPPPRPSSSIPDPGRELPGGQLLAVHA
 GSMERKGPKEGLPMGPPPLPEPNGVIMMLKSCDAAA VAKTAPAPTSSSTININTSTSKFLMNVITIEDY
 KSTYWPKLDGAIDQLLTQSPGDYIPIISYEQIYSCVYKCVQCQHSEMQYSDLIKKITSHLERSKELQASP
 PDLYIERFNIALGQYMGALQSI VPLFIYMNKFYIETKLNRLKDDLIKLFTEHVAEKHIYSLMQWVQMAP
 TLF SKFIPNILPPAVESELSEYAAQDQKLQRELIQNGFTRGDQSRKRAGDELA YNSPACASSRGYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001172096

ORF Size: 1041 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_001172096.1](#), [NP_001165567.1](#)

RefSeq Size: 5718 bp

RefSeq ORF: 1044 bp

Locus ID: 78832

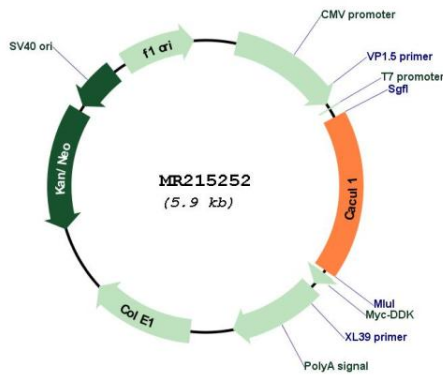
UniProt ID: [Q8R0X2](#)

Cytogenetics: 19 D3

MW: 39.3 kDa

Gene Summary: Cell cycle associated protein capable of promoting cell proliferation through the activation of CDK2 at the G1/S phase transition.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215252