

Product datasheet for **MR209066**

Cdkal1 (NM_144536) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdkal1 (NM_144536) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdkal1
Synonyms:	1190005B03Rik; 6620401C13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209066 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTTCTCGCTTGTGATGTACTGCTGGATGACATAGAAGATATCATATCACAGGAAGATTCAAAGC
 CACAGGACAGACAGTTCTCAAGAAAGCATGTGTTTCTAAAGTACGAAGCGGAATACCCAAAAATTTT
 GCAAGAAGAGCCAGGCCACCAAGTGACAGCACTATTCCAGGCATACAGAAAATTTGGATCCGAACATGG
 GGCTGCTCACATAATAATTCCGATGGAGAATACATGGCTGGACAGCTTGTGCCTATGGCTATAAAATTA
 CAGAGAAATGCATCAGATGCAGATCTGTGGCTCCTGAACAGTTGTACTGTGAAAAATCCAGCTGAAGACCA
 CTTTAGAACTCAATCAAAAAAGCTCAAGAAGAGAATAAGAAAGTTGTCCTCGCTGGCTGTGTTCCCCAA
 GCCCAGCCTCGTCAGGACTACCTCAAAGGACTGAGCATCATCGGGTTCCAGCAGATAGATCGTGTGGTAG
 AAGTTGTGGAGGAAACAATAAAAGGTCCTCAGTGAGGCTCCTGGGCCAGAAGAAAGACAACGGGAAGCG
 CTTGGGTGGAGCTCGACTGGATTTGCCGAAGATCAGAAAGAATCCGCTGATAGAAATCATTCCATCAAC
 ACGGGGTGTCTCAATGCTTGTACCTACTGCAAACTAAACACGCCAGAGGAAACCTGGCCAGCTATCCCA
 TTGATGAGCTTGTGGAGAGAGCCAAAGCAATCCTTTCAAGAGGGTGTGTTGTGAGATATGGCTGACCAGCGA
 GGACACCGGGGCCTATGGCAGAGACATTGGCACAGATCTCCACACTCCTGTGGAAGTTGGTGGAAAGTG
 ATTCTGAGGGAGCCATGCTGAGGCTGGGCATGACAAATCCACCATATATTTTAGAACATCTGGAGGAAA
 TGGCAAAATCCTCAACCATCCCAGAGTCTACGCTTTCCTCCACATCCCAGTGCAGTCCGCTCTGACAG
 TGTGCTCATGGACATGAAGAGAGAGTACTGCGTGGCCGACTTCAAAGAGTCGTGGATTTTCTCAAGGAG
 AAGTTCTGGAATAACGATTGCTACGGATATTATCTGTGGTTTCTGGAGAAACCGATCAGGATTTTC
 AAGAAACAGTAAACTTGTGAAGAGTACAAATTTCCAAGCCTTTCATCAACCAAGTTCTATCCAAGACC
 CGGAACTCCTGCTGCAAAAGCCGAGCAGGTTCCAGCACATGTGAAAAACAAGGACAAAAGATCTTTCT
 CGGGTGTTCATTCTACAATCCATACGATCACAAGATTGGCGAAAGACAACAAGTCTAGTCACTGAAG
 AGTCTTTTACTCCAAGTTTTATGTTGCTCATAACCGATTCTATGAGCAGTTTTAGTACCAAAGAACC
 TGCATTATGGGAAAATGGTTGAAGTCGACATTTACGAATCAGGAAAGCACTTTTTGAAAGGACAGCCA
 GTATCAGAAACCAGAGTGTATACACCATCCATCAGCAAGCCACTGGCCAAGGGAGAAGTCTCAGGTTTGA
 CAAAGGAATTCAGAAATAGGCTTGGGAATCATCCAACGGAACCTCAGACACCTGCTGCAACTCAGCA
 TGGCTCTCGGTATTCAGAAATGGTGTGCAGATGTCCAGTATGACTGCGCACTGAAGGTGGCTACAGGC
 CTGGCTCTCTCGCTCTCTTTTGCATTTCTGGCCAGACTCTTTGCTTACAATG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209066 protein sequence
 Red=Cloning site Green=Tags(s)

MPSASCDVLLDDIEDIISQEDSKPQDRQFSRKHVFPKVRRTQKYLQEEPRPPSDSTIPGIQKIWIRTW
 GCSHNSDGEYMAQGLAAYGYKITENASDADLWLLNSCTVKNPAEDHFRNSIKKAQEENKVVLAGCVPQ
 AQRQDYKGLSIIIGVQQIDRVVEVEETIKGHSVRLGQKKNKRLGGARLDLPKIRKNPLIEIISIN
 TGCLNACTYCKTKHARGNLASYIDELVERAKQSFQEGVCEIWL TSED TGAYGRDIGTDLPTLLWKLVEV
 IPEGAMLRLGMTNPPYILEHLEEMAKILNHPRVYAFHLPVQSASDSVLMMDMKREYCVADFKRVVDFLKE
 KVPGITIATDIIICGFPGETDQDFQETVKLVEEYKFPPLFINQFYPRPGTPAAKAEQVPAHVKKQRTKDLS
 RVFHSYNPYDHKIGERQQVLVTEESFDSKFYVAHNRFYEQVLVPKNPAFMGMKMEVDIYESGKHFLLKGP
 VSETRVYTPSISKPLAKGEVSGLTKEFRNRLGNHPNGTSDTCPATQHGSAYS RMVLQMSQYDCALKVATG
 LALLALLLHFWPDSLLTM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_144536

ORF Size: 1737 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_144536.3](#)

RefSeq Size: 2538 bp

RefSeq ORF: 1737 bp

Locus ID: 68916

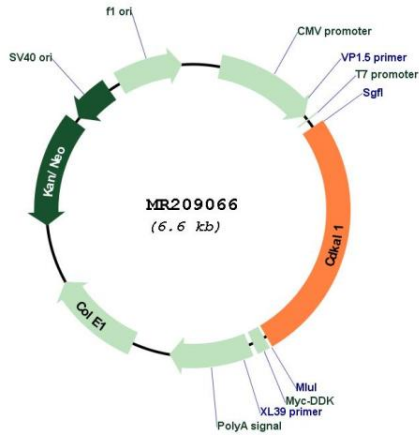
UniProt ID: [Q91WE6](#)

Cytogenetics: 13 A3.1-A3.2

MW: 65.3 kDa

Gene Summary: Catalyzes the methylthiolation of N6-threonylcarbamoyladenosine (t(6)A), leading to the formation of 2-methylthio-N6-threonylcarbamoyladenosine (ms(2)t(6)A) at position 37 in tRNAs that read codons beginning with adenine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209066