

## Product datasheet for MR214049

### Cad (NM\_023525) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cad (NM\_023525) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cad  
**Synonyms:** 2410008J01Rik; AU018859; Cpad  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR214049 representing NM\_023525  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGCCCTGGTGTGGAGGACGGGTCGGTGCAGGGCCGGCCCTTTGGGGCCGCTGTGTCGACTG  
 CTGGGGAAGTGGTGTTCAGACCGGCATGGTCGGCTACCCAGAGGCCCTCACTGACCCTTCTACAAAGC  
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 TTAAGACTCCACGGGTATTCAATGCAGGGGGTGCCTCGGATCTGTGCTCTGGATTGTGGCCTCAAGTA  
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 CCTGCCCTTCTCAGTGTCCAGTTTACCCAGAGCACCGGGCCGGCCCTCAGATATGAACTGCTCTTC  
 GATGTATTTCTAGAACTGTGAGAGAGGCTGCAGCTGGGAACATTGGGGCCAGACAGTAAGAGAACGCT  
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 ACGCCAGATGGTGTACTGACTTTTGGGGTCAAACAGCCCTGAACTGCGGTGTGGAGCTGACCAAA



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GCTGGGGTACTGGCTCGATATGGGGTCCGGTCTTGGGTACACCCGTGGAGACCATTGAACTGACTGAGG  
 ACCGACGAGCCTTCGCTGCCAGGATGGCTGAGATCGGAGAGCATGTGCCCCCAGTGAAGCGGCAAATTC  
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CCAAGCAGGAGGAGTTTGGAGCATCGAGGAGGCGCTGCCCGACACAGACGTGCTCTACATGACTCGGAT  
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ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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**Protein Sequence:** >MR214049 representing NM\_023525  
 Red=Cloning site Green=Tags(s)

MAALVLEDGSLVQGRPFGAAVSTAGEVVFQTMVGYPEALTDPSYKAQILVLTYPYLIIGNYGIPSDDEDEF  
 GLSKWFESSEIHVAGLVGECPTPSHWSANCTLHEWLQQRGIPGLQGVDTRELTKKLREQSLLGKLVQ  
 KGTEPSALPFVDPNARPLAPEVSIKTPRVFNAGGAPRICALDCGLKYNQIRCLCQLGAEVTVPWDHELD  
 SQKYDGLFLSNGPGDPASYPGVVSTLSRVLSEPNRPVFGICLGHQLLALAIKAKTYKMRVGNRGNQPC  
 LLVGTGRCFLLTSQNHGFAVDADSLPAGWAPLFTNANDCSNEGIVHDSLPPFFSVQFHPEHRAGPSDMELLF  
 DVFLETVREAAAAGNIGGQTVRERLAQRCLPPELPIPGSGLPPPRKVLILGSGGLSIGQAGEFDYSGSQAI  
 KALKEENIQTLINPNIATVQTSQGLADKVYFLPITLHYVTQVIRNERPDGVLLTFGGQTALNCGVELTK  
 AGVLARYGVRVLGTPVETIELTEDRRFAARMAEIGEHVAPSEAANSLEQAQAAAERLGPVVLVRAAFAL  
 GGLGSGFASTKEELSAVAPAFHTSQVLIDKSLKGWKEIEYEVVRDAYGNCVTVCNMENLDPLGIHTGE  
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 HPVVISKFIQEAKIDVDAVACDGIVSAIAISEHVENAGVHSGDATLVTPPQDITPKTLERIKAIHVAVG  
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 VKVPQFSFRLAGADVVLGVEMTSTGEVAGFGESEYKAMLSTGFKIPEKNILLTIGSYKNKSELLP  
 TVRLLLESLGYSLYASLGTADFYTEHGKVTAVDWHFEEAVDGECPQRSILDQLAENHFELVINLSMRGA  
 GGRRLSSFVTKGYRTRRLAADFSVPLIIDIKCTKLFVEALGQIGPAPPLKVHVDCMTSQKLVRLPGLIDV  
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 EVDLEHEWTVPSHMPFSKARWTFEFGQKVKGTVRRVVLRGEVAYIDGQVLVPPGYQDVRKWPQGVVPPQ  
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 PAPPVPRQASPQNLGSSGLLHPQMSPLHSLVGQHILSVKQFTKDQMSHLFNVAHTRMMVQKERSLDIL  
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 PHIMTRAKKKMVMHMPRVNEISVEVSDPRAAYFRQAENGMYIRMAALLATVLRGFR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9106\\_b02.zip](https://cdn.origene.com/chromatograms/mm9106_b02.zip)

**Restriction Sites:** SgfI-MluI

Cloning Scheme:



ACCN: NM\_023525

ORF Size: 6675 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\\_023525.2](#), [NP\\_076014.1](#)

RefSeq Size: 7159 bp

RefSeq ORF: 6678 bp

Locus ID: 69719

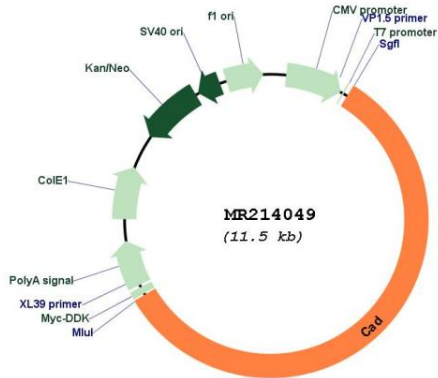
UniProt ID: [B2RQC6](#)

Cytogenetics: 5 B1

**MW:** 243.2 kDa

**Gene Summary:** This protein is a "fusion" protein encoding four enzymatic activities of the pyrimidine pathway (GATase, CPSase, ATCase and DHOase).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR214049