

Product datasheet for MC229710

Cad (NM_001289523) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cad (NM_001289523) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cad
Synonyms: 2410008J01Rik; AU018859; Cpad
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229710 representing NM_001289523
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCCCTGGTGTGGAGGACGGGTCGGTCTGCAGGGCCGGCCCTTTGGGGCCGCTGTGTCGACTG
 CTGGGGAAGTGGTGTTCAGACCGGCATGGTCGGCTACCCAGAGGCCCTCACTGACCCTTCTACAAAGC
 TCAGATCTAGTCTAACGTATCTCTCATCGGCAACTACGGCATTCCCTCAGATGAAGAGGACGAGTTC
 GGCTGAGCAAGTGGTTGAATCCTCGGAGATCCACGTGGCGGGACTTGTAGTGGGAGAATGCTGTCCCA
 CACCCAGCCACTGGAGTGCCAACTGCACCTGCATGAGTGGCTGCAACAGCGTGGCATCCCCGGCCTGCA
 AGGAGTGGACACTCGGGAGCTGACTAAGAAGTTGCGGGAGCAAGGGTCTCTTTGGGGAAGCTGGTCCAG
 AAAGGGACAGAGCCGTCAGCCCTGCCATTCGTGGACCCCAATGCCAGGCCCTGGCACCAGAGGTCTCTA
 TTAAGACTCCACGGGTATTCAATGCAGGGGGTCCCTCGGATCTGTGCTCTGGATTGTGGCCTCAAGTA
 TAATCAGATCCGATGTCTCTGCCAGCTTGGGGCTGAAGTTACCGTGGTACCCTGGGACCAGGTTAGAC
 AGTCAGAAATATGACGGTCTCTTCTAAGTAATGGACCCGGTGACCCTGCCTCTTACCCGGGTGTGGTGT
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 TGCCAGCAGGCTGGGCTCCTCTGTTACCAATGCCAATGACTGTTCCAATGAAGGCATAGTGACAGACAG
 CCTGCCCTTCTCAGTGTCCAGTTTACCCAGAGCACCAGGGCCGGCCCTCAGATATGAACTGCTCTTC
 GATGTATTTCTAGAACTGTGAGAGAGGCTGCAGCTGGGAACATTGGGGCCAGACAGTAAGAGAACGCT
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 AGGGGCTGGCAGACAAGTCTATTTCTCCATAAACACTTCACTACGTAACCCAGGTAATTCGTAAATGA
 ACGCCAGATGGTGTGTTACTGACTTTTGGGGTCAAACAGCCCTGAACTGCGGTGTGGAGCTGACCAAA
 GCTGGGTTACTGGCTCGATATGGGTCCGGTCTTGGGTACACCCGTGGAGACCATTGAACTGACTGAGG



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ACCGACGAGCCTTCGCTGCCAGGATGGCTGAGATCGGAGAGCATGTCGCCCCAGTGAAGCGGCAAATTC
 TCTTGAACAGGCTCAGGCAGCTGCCGAGCGACTAGGCTACCCTGTGCTGGTGCAGCAGCCTTTGCCCTG
 GGTGGTCTCGTTCTGGCTTTGCTTCCACCAAAGAGGAACTCTCAGCTCTTGTGGCTCCAGCTTTTGCCC
 ATACCAGTCAGGTGCTGATAGACAAGTCTCTGAAGGGCTGGAAGGAGATTGAATATGAGGTGGTGAAGA
 CGCCTATGGCAACTGCGTAACGGTATGCAACATGGAGAACTTAGACCCACTGGGCATTACTACTGGTGAA
 TCCATAGTGGTGGCTCCGAGCCAGACACTGAATGACAGAGAGTACCAGCTTCTGCGACGGACAGCTATCA
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 GCATCGTGTGGCCATTGCCATCTCTGAGCAGTGGAGAATGCAGGTGTGATTGAGGTGATGCCACGCT
 GGTGACCCCCCACAAGACATCACCCGAAAACCTGGAGCGGATCAAAGCCATTGTGCATGCTGTGGGC
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 CTTTAAGATCCCAGAGAAGAACATCCTGCTGACTATTGGCAGCTACAAGAACAAAAGTGAGCTGCTCCCA
 ACTGTGCGGTGCTGGAGAGCCTGGGCTACAGCCTCTATGCCAGCCTGGGTACGGCAGACTTCTACACTG
 AGCACGGGGTCAAGGTAACAGCTGTGGACTGGCACTTTGAAGAGGCGGTGGATGGTGAAGTCCCACCACA
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 GGGGGTCGGCTCTTCCCTCCTTCGTTACCAAGGGTACCGTACCCGGCTCTGGCCGCTGATTTCTCTG
 TGCTCTCATCATTGACATCAAGTGACCAAACTCTTTGTGGAGGCCATAGGCCAGATCGGCCAGCCCC
 TCCTTTGAAAGTGCACGTTGACTGCATGACCTCCAGAAGCTAGTGCGCCTGCCCGGATTGATTGATGTC
 CACGTGCACCTTCGGAACAGGTGGGACACACAAGAGGACTTTGCCTCAGGCACAGCTGCTGCCTTGG
 CTGGGGGTGTCACCATGGTTTGTGCTATGCCTAATACCCGACCCCATCATTGATGCTCCTGCTCTCGC
 CCTTGCCAGAAGCTGGCAGAGGCTGGCGCCGCTGTGACTTTACCTTATTCCTTGGAGCCTCATCTGAG
 AACCGGGGACTCTGGGTGCTGTGGCCGCTCTGCAGCAGGCTGAAGCTCTACCTCAACGAGACCTTCT
 CTGAGCTGCGGCTGGACAGTGTGGCCAGTGGATGGAGCATTGAAACCTGGCCTGCCACCTCCCAT
 TGTGGCCATGCAGAGCGCAGAGTGTGCTGCGGTCTCATGGTGGCTCAGCTGACCCAGCGTCCAGTG
 CACATATGTCATGTGGCTCGGAAGGAAGAGATCCTGTTGATTAATAACTGCAAAGGCGCAGGGGCTGCCAG
 TGACCTGTGAGGTGCTCCTCACCACTGTTCTAAACCGGGAAGACTTGGAGCGCTGGGACCTGGGAA
 GGGAGAGGTCCGTCTGAGCTTGGGTCCCAGAGGATATGGAAGCCCTGTGGGAGAATATGGCAGTCATC
 GACTGTTTTGCCTCAGACCACGCTCCCCATACCTTGAAGAGAAGTGTGGGCCAAAGCCTCCACCTGGCT
 TCCCGGGCTAGAGACCATGTTGCCGCTGCTGCTGACAGCTGTGAGCGAGGGCCGCTCAGTCTGGATGA

CCTGCTGCAGCGATTGCACCACAACCCTCGGCGGATCTTCCACCTGCCTCTCCAGGAGGACACCTATGTA
 GAGGTGGATCTGGAGCATGAGTGGACAGTCCCCAGCCACATGCCCTTCTCTAAGGCCCGCTGGACCCCAT
 TTGAAGGACAGAAAGTGAAGGGCACAGTGCGCCGTGTGGTCTTGGCAGGGGAGGTGCGCTATATTGATGG
 ACAGGTGCTGGTACCCCGGGCTATGGACAAGATGTACGGAAGTGGCCGAGGGGTTGTTCCCCAGCCC
 CCTCCTTCAACTCCCGCCACCACCGAAATCACCACGACACCTGAGCGACCACGCCGAGTCATCCCGGGCC
 TTCCTGATGGCCGCTTCCACCTGCCACCCCGCATCCACCGGGCCTTGACCCAGGTCTGCCAGTGAGGA
 ACCTAAAGAGAAGCCACCAGGAAGGTAGTGGAAACCAGAGCTGATGGGAACCCCTGATGGTCCCTGTAC
 CCTGCACCACCAGTACCTAGACAGGCATCACCCAGAACCTAGGGTCTTCTGGCCTGCTGCACCCCCAGA
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 GTCTCATCTGTTCAATGTGGCGCACACGCTACGGATGATGGTACAGAAGGAGCGGAGCCTCGACATCCTG
 AAGGGGAAGTCAATGGCCTCCATGTTCTACGAGCTGGCAGCCAAGCACTGTGCGAGGCCAGTGATCAATG
 CTGGGGATGGAGTTGGGGAGCACCCACACAGGCCCTGCTGGACATCTTACCATTTCGAGAAGAGCTGGG
 GACTGTCAATGGCATGACGATCACTATGGTCGGTGACCTGAAGCATGGACGCACAGTGCCTCCCTGGCC
 TGCCCTGCTCACCAGTACCGTGTGAGCCTACGCTACGTGGCACCTCCAGCCTGCGCATGCCACCCAGTG
 TACGGGACTTTGTGGCCTCCCGAGGCACCAAGCAGGAGGAGTTTGAGAGCATCGAGGAGGCGCTGCCCGA
 CACAGACGTGCTCTACATGACTCGGATCCAGAAAGAACGATTTGGCTCTGTCCAGGAATATGAAGCTTGC
 TTTGGTCAGTTTCACTCCTCACTCCTCACATCATGACCCGGGCCAAGAAGAAGATGGTGGTGTGCACCCAA
 TGCCCCGTGTCAATGAGATAAGTGTGGAGGTGGACTCGGACCCCGGGCAGCCTACTTCCGCCAAGCTGA
 GAACGGCATGTACATCCGCATGGCCCTGCTTGGCCACCGTCTTGGCCGTTTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001289523

Insert Size:

6495 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001289523.1](#), [NP_001276452.1](#)

RefSeq Size:

6954 bp

RefSeq ORF:

6495 bp

Locus ID: 69719

Cytogenetics: 5 B1

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]
Transcript Variant: This variant (3) uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (3) is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.