

Product datasheet for MR205350

Ada (NM_007398) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ada (NM_007398) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ada
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205350 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCAGACGCCCGCATTCAACAAACCCAAAGTAGAGTTACACGTCCACCTGGATGGAGCCATCAAGC
CAGAAACCATCTTATACTTTGGCAAGAAGAGAGGCATCGCCCTCCCGGCAGATACAGTGGAGGAGCTGCC
CAACATTATCGGCATGGACAAGCCCTCTCGCTCCCAGGCTTCTGGCCAAGTTTGACTACTACATGCCT
GTGATTGCGGGCTGCAGAGAGGCCATCAAGAGGATCGCCTACGAGTTTGTGGAGATGAAGGCAAAGGAGG
GCGTGGTCTATGTGGAAGTGCCTATAGCCACACCTGCTGGCCAATCCAAGGTGGACCCAATGCCCTG
GAACCAGACTGAAGGGGACGTCAACCCTGATGACGTTGTGGATCTTGTGAACCAGGGCCTGCAGGAGGGA
GAGCAAGCATTCCGCATCAAGTCCGGTCCATTCTGTGCTGCATGCGCCACCAGCCAGCTGGTCCCTTG
AAGTGTGGAGCTGTGTAAGAAGTACAATCAGAAGACCGTGGTGGCTATGGACTTGGCTGGGGATGAGAC
CATTGAAGGAAGTAGCCTCTTCCAGGCCACGTGGAAGCCTATGAGGGCGCAGTAAAGAATGGCATTTCAT
CGGACCGTCCACGCTGGCGAGGTGGCTCTCCTGAGGTTGTGCGGAGGCTGTGGACATCCTCAAGACAG
AGAGGGTGGGACATGGTTACCACACCATCGAGGATGAAGCCCTCTACAACAGGCTACTGAAAGAAAACAT
GCACTTTGAGGTCTGCCCTGGTCCAGCTACCTCACAGGCGCCTGGGATCCAAAACGACGCATGCGGTT
GTTGCTTCAAGAATGATAAGGCCAACTACTCACTCAACACAGACGACCCCTCATCTTCAAGTCTACTC
TAGACACTGACTACCAGATGACCAAGAAAGACATGGGCTTCACTGAGGAGGAGTTCAAGCGACTGAACAT
CAACGCAGCGAAGTCAAGCTTCTCCAGAGGAAGAGAAGAAGGAAGTCTTCTGGAACGGCTCTACAGAGAA
TACCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



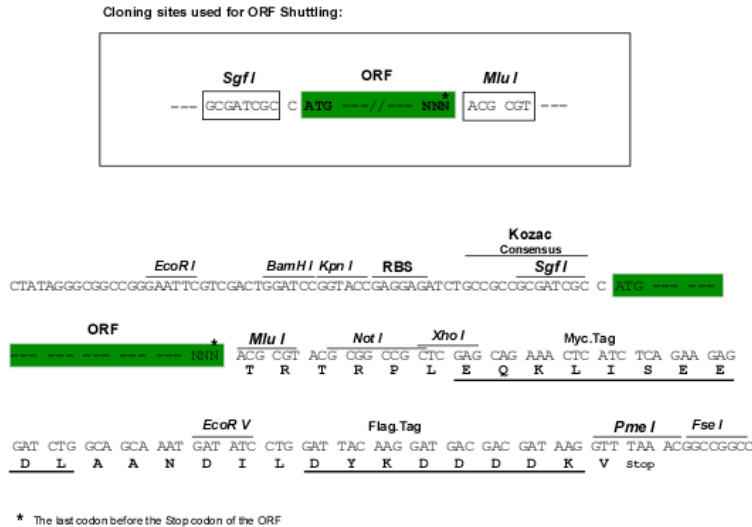
Protein Sequence: >MR205350 protein sequence
 Red=Cloning site Green=Tags(s)

MAQTPAFNPKPKVELHVHLDGAIKPETILYFGKKRGIALPADTVEELRNIIGMDKPLSLPGFLAKFDYYMP
 VIAGCREAIKRIAYEFVEMKAKEGVVYEVRYSPHLLANSKVDPMWPNQTEGDVTPDDVVDLVNQLQEG
 EQAFGIKVRISILCCMRHQPSWSLEVLLELCKKYNQKTVVAMDLAGDETIEGSSLFPGHVEAYEGAVKNGIH
 RTVHAGEVGSPEVVREAVDILKTERVGHGYHTIEDEALYNRLLKENMHFEVCPWSSYL TGAWDPKTTHAV
 VRFKNDKANYSLNTDDPLIFKSTLDTDYQMTKKDMGFTEEEFKRLNINAAKSSFLPEEEKKELLERLYRE
 YQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007398

ORF Size: 1059 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_007398.1](#), [NM_007398.2](#), [NM_007398.3](#), [NM_007398.4](#), [NP_031424.1](#)

RefSeq Size: 1701 bp

RefSeq ORF: 1059 bp

Locus ID: 11486

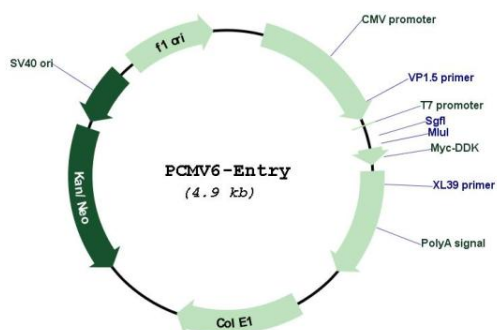
UniProt ID: [P03958](#)

Cytogenetics: 2 H3

MW: 40 kDa

Gene Summary: Catalyzes the hydrolytic deamination of adenosine and 2-deoxyadenosine (PubMed:9272950). Plays an important role in purine metabolism and in adenosine homeostasis (PubMed:9272950, PubMed:10720488). Modulates signaling by extracellular adenosine, and so contributes indirectly to cellular signaling events (PubMed:11435465). Acts as a positive regulator of T-cell coactivation, by binding DPP4. Its interaction with DPP4 regulates lymphocyte-epithelial cell adhesion (By similarity). Enhances dendritic cell immunogenicity by affecting dendritic cell costimulatory molecule expression and cytokines and chemokines secretion (By similarity). Enhances CD4+ T-cell differentiation and proliferation (By similarity). Acts as a positive modulator of adenosine receptors ADORA1 and ADORA2A, by enhancing their ligand affinity via conformational change (By similarity). Stimulates plasminogen activation (By similarity). Plays a role in male fertility (By similarity). Plays a protective role in early postimplantation embryonic development (PubMed:9272950).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205350