

## Product datasheet for **MC227224**

### Ada (NM\_001272052) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ada (NM\_001272052) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ada  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC227224 representing NM\_001272052  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCAGACACCCGCATTCAACAAACCCAAAGTAGAGTTACACGTCCACCTGGATGGAGCCATCAAGC  
 CAGAAACCATCTTATACTTTGGCAAGAAGAGAGGCATCGCCCTCCCGGCAGATACAGTGGAGGAGCTGCG  
 CAACATTATCGGCATGGACAAGCCCTCTCGCTCCCAGGCTTCTGGCCAAGTTTGACTACTACATGCCT  
 GTGATTGCGGGCTGCAGAGAGGCCATCAAGAGGATCGCCTACGAGTTTGTGGAGATGAAGGCAAAGGAGG  
 GCGTGGTCTATGTGGAAGTGCCTATAGCCACACCTGCTGCCAATCCAAGGTGGACCAATGCCCTG  
 GAACCAGACTGAAGGGGACGTCAACCCTGATGACGTTGTGGATCTTGTGAACCAGGGCCTGCAGGAGGGA  
 GAGCAAGCATTGGCATCAAGTCCGGTCCATTCTGTGCTGCATGCGCCACCAGCCAGCTGGTCCCTTG  
 AGGTGTTGGAGCTGTGTAAGAAGTACAATCAGAAGACCGTGGTGGCTATGGACTTGGCTGGGGATGAGAC  
 CATTGAAGGAAGTAGCCTCTTCCAGGCCACGTGGAAGCCTATGAGGGCGCAGTAAAGAATGGCATTTCAT  
 CGGACCGTCCACGCTGGCGAGGTGGCTCTCCTGAGGTTGTGCGTGAGGCTGTGGACATCCTCAAGACAG  
 AGAGGGTGGGACATGGTTATCACACCATCGAGGATGAAGCTCTACAACAGACTACTGAAAGAAAACAT  
 GCACCTTGAGGTCTGCCCTGGTCCAGCTACCTCACAGGCGCTGGGATCCAAAACGACGCATGCGGTT  
 GTTCGTTCAAGAATGATAAGGCCAACTACTCAACACAGACGACCCCTCATCTTCAAGTCCACCC  
 TAGACACTGACTACCAGATGACCAAGAAAGACATGGGCTTCACTGAGGAGGATTAAGCGACTGAACAT  
 CAACGCAGCGAAGTCAAGCTTCTCCAGAGGAAGAGAAGAAGGAAGTCTTCTGGAACGGCTCTACAGAGAA  
 TACCAATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001272052



|                               |   |
|-------------------------------|---|
| <b>Insert Size:</b>           | 1059 bp   |
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>OTI Annotation:</b>        | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.  |
| <b>RefSeq:</b>                | <u><a href="#">NM_001272052.1</a></u> , <u><a href="#">NP_001258981.1</a></u>   |
| <b>RefSeq Size:</b>           | 1704 bp   |
| <b>RefSeq ORF:</b>            | 1059 bp   |
| <b>Locus ID:</b>              | 11486   |
| <b>UniProt ID:</b>            | <u><a href="#">P03958</a></u>   |
| <b>Cytogenetics:</b>          | 2 H3  |

**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]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.