

## Product datasheet for **MC224049**

### Rev1 (NM\_019570) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rev1 (NM_019570) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rev1
Synonyms:	1110027I23Rik; AU022044; Rev1I
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224049 representing NM_019570 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGGCGAGGTGGATGGCGGAAGAGAACGGAGAATGATGGCTGGGAAAAATGGGCGGGTACATGGCTG  
CCAAGTCCAGAAGCTGGAGGAGCAGTTCGCACAGATGCTGCTAACCAGAAGGATGGGACGGCGTCTGC  
AATATTTAGTGGAGTTGCCATCTATGTTAATGGATATACAGATCCTTCTGCGGAGGAATTGAGAAATCTA  
ATGATGTTGCATGGAGGTCAATACCATGTGTATTATTCTAGATCCAAAACAACACACATTATTGCTACAA  
ATCTTCTAATGCCAAAATTAAGAATTAAGGGGGAAAAAGTAATACGACCAGAATGGATTGTGGAAAG  
CATCAAAGCTGGGAGACTCTTGTCTCTGCTCCCTATCAGCTCTACACCAAGCCGTGGCTGCACAGAAG  
AGTCTCAACTTCAATCTGTGTGCAACCTGAGGATCCTGGCCAGGTCCAAGCAATAGAGCCAAACAGC  
TCAACAACAGGGTAAATCACATAATTAAGAAGATTGAGACAGAAAGTGAAGTGAAGCAAATGGACTGAG  
CAGCTGGAATGAAGACGGTGAATGATGATTTTAGTTTTGAGGATCTGGAACATACATTTCCAGGAAGG  
AAACAGAATGGAGTAATGCATCCCAGAGATACCGCTGTCATTTTTAATGGACACACCCATAGTTCAAATG  
GTGCCTTAAAGACACAGGATTGCTTGGTGCCTGTGGCAACAGTGTGCTAGCAGGCTATCTTTAGACTC  
ACCCAGGAGGAAGAGGGCAGAGAAGCAACGCGGACTTCAGAGACTGCACAGTGCAGCACTTGCAA  
CACAGCACCAGAAGTGCAGATGCTTTGCGGAGTCCACACAGAACTAATTCTCTCACCATCTTTGCACA  
GTAACACTAAAATCAATGGTGCTCACCCTCCACTGTTCAAGGGCCTTCAAGCACAAAAGCACTTCTGT  
TCTGACTCTTAGTAAAGTAGCGCCTTCACTGCCATCCAAACCCTCGGACTGCAACTTCATTTAGATTTT  
TATTCTCGTTCAAGACTGCATCACATCTCAACATGGAAGTGTGAATTGACTGAGTTTGTCAATACCTAC  
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TGTTGTAAGTACACAGGCACTATGTCAGTGTTGAGCTCACCCAGACATCAGAGCTGTGTGATGCACGTT  
GATATGGACTGCTTCTTTGTATCAGTGGGTATACGAAATAGACCAGATCTCAAAGGAAAACAGTGGCTG  
TTACAAGTAACAGAGGCACGGGAACGGCCCTTTGCGTCTGGTCTAACCAGCAGCTGGAATGGCAGTA  
TTACCAGAATAGAGCCCTGAGAGGAAAAGCAGCAGATATACCAGATTCATCAGTATGGGAGAATCAAGAT  
TCTACACAAAATGGAATTGATTCTGTTCTGTCAAAGCTGAGATTGCTTCTGTAGTTATGAAGCCA



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GACAAGTTGGCATTAAAGAACGGAATGTTTTTGGATATGCTAAACAGCTGTGCCTAATCTGCAAGCTGT  
 TCCGATGATTTTTATGCATGCAGGGAAGTTGCCAGGCAATGTATGAAACACTGGCCAGCTACACACAC  
 AGCATCGAGGCTGTCAGCTGCGATGAAGCACTGATTGACGTACGGGACATCCTTGACAGAGACGAACTTT  
 CTCCTGAGGAGTTTGAGCTGCCCTCCGTATTGAAATCAAAGACAAGACCAATGTGCTGCCTCTGTTGG  
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 GGGCAAACGCCTGACTCTGAAAATCATGGTGGGAAGCCAGGGGCCCTATAGAACTGCAAAATTTGGA  
 GGCCATGGAATTTGTGATAACATCGCCAGGACTGTAACCTGGACCAGGCAACAGATAGTCAAAAAATAA  
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 TCAAGTGAATCAGTTGGTCTCTGCTAATCAAATCTTCCACATGTTCAAGTCGTCATCAGCTCAGTCA  
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 AAGAGGAACACAAGGAAGTATTTCTGGCTGCTGTGGATCTGGAAGTGCTCCACCTCTAGAGCTTGTGG  
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 GCTTCAAAGGAGCTGAAAGCAGCATATGATCAAAGACAAGGCCAGGGAGAGGACACTACTCAGCAGCAG  
 CCAACCAGTACATCTGTGCCAAAGAATCCTTTACTTCAGCTAAAGCCACCAGCAATGAAAGACAAGAGGA  
 ACAAGAGGAAGAACCTCATTGGTTCTCCAGAAAGAGTCTTTGAAAAATAAGCTGCTTAGCAGTCTGTC  
 AAAAATCTGCCAGGGGCATATGGAAGCCCCAGAAAGTTAATGGATGGTTTTCTACAACATGAAGGAATG  
 GCTTCAGAGAGACCCCTGGAAGAAGTCTCGGCTTCTACCCTGGTGCACAGGACCTATCTAGTTTACTGC  
 CAGGCCAGAGCAGCTGTTTTAGACCAGCAGCACCCAACCTAGCTGGAGCTGTGGAATTCACTGATGTGAA  
 GACCTTGTCAAAGAGTGGATCACTACTATCTCAGATCCGATGGAAGAAGACATCTGCAGGTTGTGAGA  
 TACTGCACTGACCTCATAGAGGAGAAAGACTTGGAAAAATGGATCTGGTTATAAAATACATGAAAAGGT  
 TGATGCAGCAGTCGGTGGAGTCTGTATGGAACATGGCGTTTGACTTTATCTTGACAATGTTCAAGTGGT  
 TTTACAGCAGACTTATGGAAGCACACTGAAAGTGACCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-MluI

**ACCN:**

NM\_019570

**Insert Size:**

3750 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).

**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\\_019570.3](#), [NP\\_062516.2](#)

**RefSeq Size:** 4279 bp

**RefSeq ORF:** 3750 bp

**Locus ID:** 56210

**UniProt ID:** [Q920Q2](#)

**Cytogenetics:** 1 B

**Gene Summary:** Deoxycytidyl transferase involved in DNA repair. Transfers a dCMP residue from dCTP to the 3'-end of a DNA primer in a template-dependent reaction. May assist in the first step in the bypass of abasic lesions by the insertion of a nucleotide opposite the lesion. Required for normal induction of mutations by physical and chemical agents.[UniProtKB/Swiss-Prot Function]