

## Product datasheet for **MC216224**

### **Dmap1 (NM\_023178) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dmap1 (NM_023178) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dmap1
Synonyms:	1500016M21Rik; Dmtap1; DNMAP1; DNMTAP1; mKIAA1425
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216224 representing NM\_023178  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTACGGGCGCAGATGTACGAGACATTCTAGAACTCGGGGTCCAGAGGGAGATGCCGCTCTGGGA  
 CCATCAGCAAAAAGGATATTATCAACCCGACAAGAAAAAGTCCAAGAAGTCTCAGAGACGCTGACCTT  
 CAAGAGGCTGAGGGCATGCATCGGGAGGTCTATGCTTTGCTTTACTCTGACAAAAAGGATGCACCCCA  
 CTGCTGCCAGTGACACTGGTCAGGGTATCGGACAGTGAAGGCGAAACTGGGGTCCAAGAAGTTTCGCC  
 CTTGGAATGGATGCCTTTACTAACCCAGCTCGAAAGGACGGCGCTATGTTTTTCCACTGGCGACGAGC  
 GGCGGAGGAGGCAAGGACTACCCTTTTCCAGGTTCAATAAGACGGTGCAGGTGCCCGTACTCAGAG  
 CAGGAGTACCAACTCTACCTTCATGATGACGCATGGACTAAGGCAGAGACTGACCACCTATTTGACCTCA  
 GCCCGCATTTGATCTGCGCTTCGTAGTTATTCACGATCGGTATGACCACCAGCAGTTCAAGAAGCGTTC  
 TGTGGAGGACCTGAAAGAGAGGTACTACCACATTTGTGCCAAGCTTGCCAACGTGAGGGCTGTGCCAGGC  
 ACAGATCTCAAGATACAGTGTTCGATGCTGGGCATGAGAGACGGCGGAAGGAACAGCTAGAGCGGCTTT  
 ACAACCGAACCCAGAGCAGGTGGCAGAGGAGGAGTACCTCTACAGGAGCTGCGTAAGATTGAGGCCCCG  
 GAAAAAGAGCGGGAGAAGCGCAGCCAAGACCTGCAGAAGCTGATTACAGCAGCAGACCACTGCAGAG  
 CAGCGGCGCACGGAACGCAAGGCTCCCAAGAAGAAGCTACCCAAAAGAAGGAGGCTGAGAAGCCGGCTG  
 TCCCTGAGACTGCAGGCATCAAGTTTCCAGATTTAAGTCGGCAGGTGTCACGCTACGGAGCCAGCGGAT  
 GAAGTACCCAGCTCTGTGGTCAAGAAGATCAAGGCGCTGGAACAGATGCTGCTGGAACCTGGTGTG  
 GAGCTGAGCCCTACCCACAGAGGAGCTGGTGCATATGTTCAATGAGTTGCGGAGCGACCTGGTGTAC  
 TCTACGAGCTCAAGCAGGCTGTGCCAACTGTGAATATGAGCTACAGATGCTGCGGCACCCGCGAGGC  
 CCTGGCTCGGGCAGGAGTGTGGGGCCCTGCCGCAGCAGCAGTGGGACCAACCCCGGCTTCTGCTGAG  
 CCAACAGTGTCTGAATCTGGACTTGGTCTGGACCCACCAAGGATACCATCATTGATGTCGTGGGTGCAC  
 CCCTCACACCAATTCGCGGAAACGACGGGAATCAGCCTCCAGCTCATCTCTGTGAAGAAAGCCAAGAA  
 ACCATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_023178
- Insert Size:** 1407 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\\_023178.2](#), [NP\\_075667.1](#)

RefSeq Size: 1543 bp

RefSeq ORF: 1407 bp

Locus ID: 66233

UniProt ID: [Q9JI44](#)

Cytogenetics: 4 D2.1

**Gene Summary:** Involved in transcription repression and activation. Its interaction with HDAC2 may provide a mechanism for histone deacetylation in heterochromatin following replication of DNA at late firing origins. Can also repress transcription independently of histone deacetylase activity. May specifically potentiate DAXX-mediated repression of glucocorticoid receptor-dependent transcription. Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Participates in the nuclear localization of URI1 and increases its transcriptional corepressor activity (By similarity).[UniProtKB/Swiss-Prot Function]