

Product datasheet for **MR207480**

Dmap1 (NM_023178) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmap1 (NM_023178) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR207480 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTACGGGCGCAGATGTACGAGACATTCTAGAACTCGGGGTCCAGAGGGAGATGCCGCTCTGGGA
 CCATCAGCAAAAAGGATATTATCAACCCGACAAGAAAAAGTCCAAGAAGTCTCAGAGACGCTGACCTT
 CAAGAGGCTGAGGGCATGCATCGGAGGTCTATGCTTTGCTTTACTCTGACAAAAAGGATGCACCCCA
 CTGCTGCCAGTGACACTGGTCAGGGTATCGGACAGTGAAGGCGAACTGGGGTCCAAGAAGTTTCGCC
 CTTGGAATGGATGCCTTTACTAACCCAGCTCGAAAGGACGGCGCTATGTTTTTCCACTGGCGACGAGC
 GGCGGAGGAGGCAAGGACTACCCTTTTCCAGGTTCAATAAGACGGTGCAGGTGCCCGTACTCAGAG
 CAGGAGTACCAACTCTACCTTCATGATGACGCATGGACTAAGGCAGAGACTGACCACCTATTTGACCTCA
 GCCGCCGATTTGATCTGCGCTTCGTAGTTATTCACGATCGGTATGACCACCAGCAGTTCAAGAAGCGTTC
 TGTGGAGGACCTGAAAGAGAGGTACTACCACATTTGTGCCAAGCTTGCCAACGTGAGGGCTGTGCCAGGC
 ACAGATCTCAAGATACAGTGTTCGATGCTGGGCATGAGAGACGGCGGAAGGAACAGCTAGAGCGGCTTT
 ACAACCGAACCCAGAGCAGGTGGCAGAGGAGGAGTACCTCTACAGGAGCTGCGTAAGATTGAGGCCCG
 GAAAAAGAGCGGGAGAAGCGCAGCCAAGACTGCAGAAGCTGATTACAGCAGCAGACCACTGCAGAG
 CAGCGGCGCAGGAACGCAAGGCTCCCAAGAAGAAGCTACCCAAAAGAAGGAGGCTGAGAAGCCGGCTG
 TCCCTGAGACTGCAGGCATCAAGTTTCCAGATTTAAGTCGGCAGGTGTCACGCTACGGAGCCAGCGGAT
 GAAGCTACCCAGCTCTGTGGTCAAGAAGATCAAGGCGCTGGAACAGATGCTGCTGGAAGTTGGTGTG
 GAGCTGAGCCCTACCCACAGAGGAGCTGGTGCATATGTTCAATGAGTTGCGGAGCGACCTGGTGTAC
 TCTACGAGCTCAAGCAGGCTGTGCCAACTGTGAATATGAGCTACAGATGCTGCGGCACCCGCGCAGGAG
 CCTGGCTCGGGCAGGAGTGTGGGGCCCTGCCGCAGCAGCAGTGGGACCAACCCCGGCTTCTGCTGAG
 CCAACAGTGTCTGAATCTGGACTTGGTCTGGACCCACCAAGGATACCATCATTGATGTCGTGGGTGCAC
 CCCTCACACCAATTCGCGGAAACGACGGGAATCAGCCTCCAGCTCATCTTCTGTGAAGAAAGCCAAGAA
 ACCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207480 protein sequence
 Red=Cloning site Green=Tags(s)

MATGADVDRDILELGGPEGDAASGTISKKDIINPDKKKSKKSSSETLTFKRPEGMHREVVYALLYSDKKDAPP
 LLPSDTGGQYRTVKAKLGSKKVRPWKMPFTNPARKDGAMFFHWRRAAEEGKDYPFARFNKTVQVPVYSE
 QEYQLYLHDDAWTKAETDHLFDLSRRFDLRFVVIHDRYDQQFKKRSVEDLKERYYHICAKLANVRAVPG
 TDLKIPVFDAGHERRRKEQLERLYNRTPEQVAEEYLLQELRKIEARKKEREKRSQDLQKLITAADTTAE
 QRRTERKAPKKLPQKKEAEKPAVETAGIKFPDFKSAGVTLRSQRMKLPSSVGQKKIKALEQMLLELGV
 ELSPTPEELVHMFNELRSDLVLLYELKQACANCEYELQMLRHRHEALARAGVLGAPAAAAGVPTPASAE
 PTVSESLGLDPTKDTIIDVVGAPLTPNSRKRRESASSSSSVKKAKKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_023178

ORF Size: 1407 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_023178.2](#), [NP_075667.1](#)
RefSeq Size: 1543 bp

RefSeq ORF: 1407 bp

Locus ID: 66233

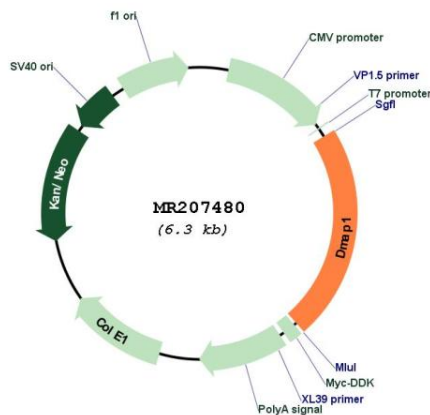
UniProt ID: [Q9J144](#)

Cytogenetics: 4 D2.1

MW: 53.1 kDa

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]

Product images:



Circular map for MR207480