

Product datasheet for **RC222239**

DMAP1 (NM_019100) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DMAP1 (NM_019100) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DMAP1
Synonyms:	DNMAP1; DNMTAP1; EAF2; MEAF2; SWC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222239 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTACGGGCGGGATGTACGGGACATTCTAGAACTCGGGGTCCAGAAGGGGATGCAGCCTCTGGGA
 CCATCAGCAAGAAGGACATTATCAACCCGACAAGAAAAATCCAAGAAGTCCTCTGAGACTGACTTT
 CAAGAGGCCCGAGGGCATGCACCGGAAGTCTATGCCTTCTACTCTGACAAGAAGGATGCACCCCCA
 CTGCTACCCAGTGACTGGCCAGGGATACCGTACAGTGAAGGCCAAGTTGGGCTCCAAGAAGGTGCGGC
 CTTGGAAGTGGATGCCATTACCAACCCGGCCCGAAGGACGGAGCAATGTTCTTCCACTGGCGACTGC
 AGCGGAGGAGGGCAAGGACTACCCCTTTGCCAGGTTCAATAAGACTGTGCAGGTGCCTGTGTACTCGGAG
 CAGGAGTACCAGCTTTATCTCCACGATGATGCTGGACTAAGGCAGAACTGACCACCTCTTTGACCTCA
 GCCGCCGCTTTGACTGCGTTTTGTTTATCCATGACCGGTATGACCACCAGCAGTTCAAGAAGCGTTC
 TGTGGAAGACCTGAAGGAGCGGTACTACCACATCTGTGCTAAGCTTGCCAACGTGCGGGCTGTGCCAGGC
 ACAGACCTTAAGATACAGTATTTGATGCTGGGCACGAACGACGGCGGAAGGAACAGCTTGAGCGTCTCT
 ACAACCGACCCAGAGCAGGTGGCAGAGGAGGAGTACCTGCTACAGGAGCTGCGCAAGATTGAGGCCCG
 GAAGAAGGAGCGGGAGAAACGCAGCCAGGACCTGCAGAAGCTGATCACAGCGGCAGACCACTGCAGAG
 CAGCGGCGCACGGAACGCAAGGCCCCCAAAAAGAAGCTACCCAGAAAAGGAGGCTGAGAAGCCGGCTG
 TTCCTGAGACTGCAGGCATCAAGTTCCAGACTCAAGTCTGCAGGTGTACAGCTGCGGAGCCAACGGAT
 GAAGCTGCCAAGCTCTGTGGACAGAAGAAGATCAAGGCCCTGGAACAGATGCTGCTGGAGCTTGGTGTG
 GAGCTGAGCCCGACACCTACGGAGGAGCTGGTGCACATGTTCAATGAGCTGCGAAGCGACCTGGTGTGC
 TCTACGACTCAAGCAGGCTGTGCCAACTGCGAGTATGAGCTGCAGATGCTGCGGCACCTCATGAGG
 ACTGGCCCGGGCTGGTGTGCTAGGGGGCCCTGCCACACCAGCATCAGGCCAGGCCCGGCTCTGCTGAG
 CCGGCAGTGACTGAACCCGACTTGGTCTGACCCCAAGGACACCATCATTGATGTGGTGGGCGACCCC
 TCACGCCCAATTCGAGAAAGCGACGGGAGTCGGCTCCAGCTCATCTTCCGTGAAGAAAGCAAGAAGCC
 G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222239 protein sequence
 Red=Cloning site Green=Tags(s)

MATGADVRIELGGPEGDAASGTISKKDIINPDKKKSKSSETLTFKRPEGMHREVVYALLYSDKKDAPP
 LLPSDTGQGYRTVKAKLGSKKVRPWKMPFTNPARKDGAMFFHWRRAAEEGKDYPFARFNKTVQVPVYSE
 QEYQLYLHDDAWTKAETDHLFDLSRRFDLRFVVIHDRYDQQFKKRSVEDLKERYYHICAKLANVRAVPG
 TDLKIPVFDAGHERRRKEQLERLYNRTPEQVAEEYLLQELRKIEARKKEREKRSQDLKLITAADTTAE
 QRRTERKAPKKLPQKKEAEKPAVETAGIKFPDFKSAGVTLRSQRMKLPSSVGQKKIKALEQMLLELGV
 ELSPTPEELVHMFNELRSDLVLLYELKQACANCEYELQMLRHRHEALARAGVLGGPATPASGPGPASAE
 PAVTEPGLGPDPKDTIIDVVGAPLTPNSRKRRESASSSSSVKKAKKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6414_b09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_019100

ORF Size: 1401 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_019100.5](#)
RefSeq Size: 1784 bp

RefSeq ORF: 1404 bp

Locus ID: 55929

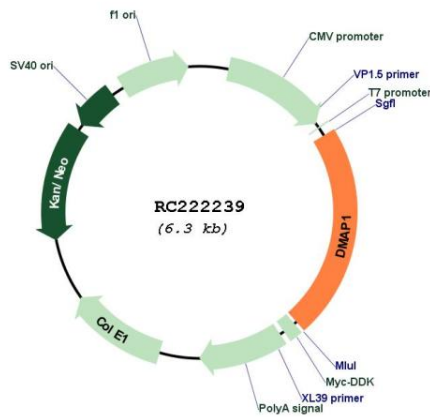
UniProt ID: [Q9NPF5](#)
Cytogenetics: 1p34.1

Protein Families: Transcription Factors

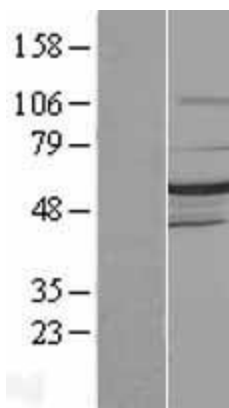
MW: 53 kDa

Gene Summary: This gene encodes a subunit of several, distinct complexes involved in the repression or activation of transcription. The encoded protein can independently repress transcription and is targeted to replication foci throughout S phase by interacting directly with the N-terminus of DNA methyltransferase 1. During late S phase, histone deacetylase 2 is added to this complex, providing a means to deacetylate histones in transcriptionally inactive heterochromatin following replication. The encoded protein is also a component of the nucleosome acetyltransferase of H4 complex and interacts with the transcriptional corepressor tumor susceptibility gene 101 and the pro-apoptotic death-associated protein 6, among others. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jul 2008]

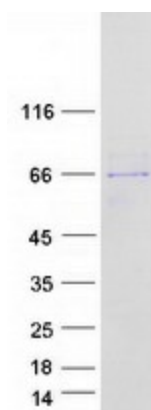
Product images:



Circular map for RC222239



Western blot validation of overexpression lysate (Cat# [LY412758]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222239 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DMAP1 protein (Cat# [TP322239]). The protein was produced from HEK293T cells transfected with DMAP1 cDNA clone (Cat# RC222239) using MegaTran 2.0 (Cat# [TT210002]).