

## Product datasheet for **RG203614**

### **DMAP1 (NM\_001034023) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DMAP1 (NM_001034023) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DMAP1
Synonyms:	DNMAP1; DNMTAP1; EAF2; MEAF2; SWC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203614 representing NM\_001034023  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTACGGGCGGGATGTACGGGACATTCTAGAACTCGGGGTCCAGAAGGGGATGCAGCCTCTGGGA  
 CCATCAGCAAGAAGGACATTATCAACCCGACAAGAAAAATCCAAGAAGTCTCTGAGACTGACTTT  
 CAAGAGGCCCGAGGGCATGCACCGGAAGTCTATGCCTTGCTCTACTCTGACAAGAAGGATGCACCCCA  
 CTGCTACCCAGTGACTGGCCAGGGATACCGTACAGTGAAGGCCAAGTTGGGCTCCAAGAAGGTGCGGC  
 CTTGGAAGTGGATGCCATTACCAACCCGGCCCGAAGGACGGAGCAATGTTCTTCCACTGGCGACTGC  
 AGCGGAGGAGGGCAAGGACTACCCCTTTGCCAGGTTCAATAAGACTGTGCAGGTGCCTGTGTACTCGGAG  
 CAGGAGTACCAGCTTTATCTCCACGATGATGCTGGACTAAGGCAGAACTGACCACCTCTTTGACCTCA  
 GCCGCCGCTTTGACCTGCGTTTTGTTGTTATCCATGACCGGTATGACCACCAGCAGTTCAAGAAGCGTTC  
 TGTGGAAGACCTGAAGGAGCGGTACTACCACATCTGTGCTAAGCTTGCCAACGTGCGGGCTGTGCCAGGC  
 ACAGACCTTAAGATACAGTATTTGATGCTGGGCACGAACGACGGCGGAAGGAACAGCTTGAGCGTCTCT  
 ACAACCGACCCAGAGCAGGTGGCAGAGGAGGAGTACCTGCTACAGGAGCTGCGCAAGATTGAGGCCCG  
 GAAGAAGGAGCGGGAGAAACGCAGCCAGGACTGCAGAAGCTGATCACAGCGGCAGACCACTGCAGAG  
 CAGCGGCGCACGGAACGCAAGGCCCCCAAAAAGAAGCTACCCAGAAAAAGGAGGCTGAGAAGCCGGCTG  
 TTCCTGAGACTGCAGGCATCAAGTTCCAGACTCAAGTCTGCAGGTGTCAAGCTGCGGAGCCAACGGAT  
 GAAGCTGCCAAGCTCTGTGGGACAGAAGAAGATCAAGGCCCTGGAACAGATGCTGCTGGAGCTTGGTGTG  
 GAGCTGAGCCCGACACCTACGGAGGAGCTGGTGCACATGTTCAATGAGCTGCGAAGCGACTGGTGTGCG  
 TCTACGAGCTCAAGCAGGCTGTGCCAACTGCGAGTATGAGCTGCAGATGCTGCGGCACCGTCAAGGC  
 ACTGGCCCGGGCTGGTGTGCTAGGGGGCCCTGCCACACCAGCATCAGGCCAGGCCCGGCCCTCTGCTGAG  
 CCGGCAGTGAACCCGGACTTGGTCTGACCCCAAGGACACCATCATTGATGTGGTGGGCGCACCCC  
 TCACGCCCAATTCGAGAAAGCGACGGGAGTCGGCTCCAGCTCATCTTCGTGAAGAAAGCCAAGAAGCC  
 G

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG203614 representing NM\_001034023  
 Red=Cloning site Green=Tags(s)

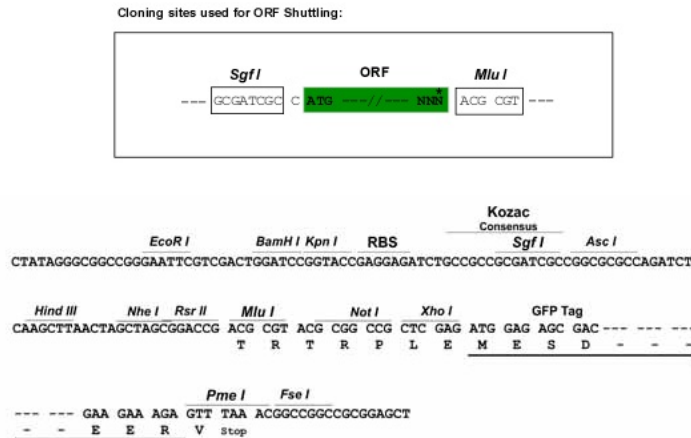
MATGADVDRDILELGGPEGDAASGTISKKDIINPDKKKSKKSSSETLTFKRPEGMHREVVYALLYSDKKDAPP  
 LLPSDTGQGYRTVKAKLGSKKVRPWKMPFTNPARKDGAMFFHWRRAAEEGKDYPFARFNKTVQVPVYSE  
 QEYQLYLHDDAWTKAETDHLFDLSRRFDLRFVVIHDDRYDQQFKKRSVEDLKERYYHICAKLANVRAVPG  
 TDLKIPVFDAGHERRRKEQLERLYNRTPEQVAEEYLLQELRKIEARKKEREKRSQDLQKLITAADTTAE  
 QRRTERKAPKKLPQKKEAEKPAVETAGIKFPDFKSAGVTLRSQRMKLPSSVQKQKIKALEQMELLELV  
 ELSPPTPEELVHMFNELRSDLVLLYELKQACANCEYELQMLRHRHEALARAGVLGGPATPASGPGPASAE  
 PAVTEPGLGPDPKDTIIDVVGAPLTPNSRKRRESASSSSSVKAKKP

**TRTRPLE** – GFP Tag – V

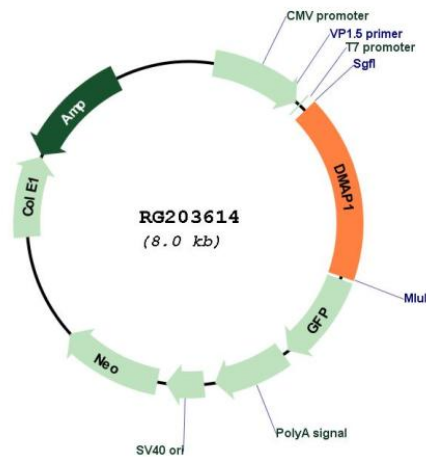
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001034023

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\\_001034023.2](#)

**RefSeq Size:** 1603 bp

**RefSeq ORF:** 1404 bp

**Locus ID:** 55929

**UniProt ID:** [Q9NPF5](#)

**Cytogenetics:** 1p34.1

**Protein Families:** Transcription Factors

**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]