

Product datasheet for **RC227951**

DMTF1 (NM_001142327) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DMTF1 (NM_001142327) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DMTF1
Synonyms:	DMP1; DMTF; hDMP1; MRUL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227951 representing NM_001142327
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCACAGTGGAAAGAGGATTCTGACACAGTAACAGTAGAAACTGTGAACTCTGTGACTTTGACTCAGG
 ACACAGAAGGGAATCTCATTCTTCACTGCCCTCAGAATGAAGCGGATGAAATAGACTCAGAAGATAGTAT
 TGAACCTCCACATAAAAAGGCTTTGTTTGTCTCTGAGGATGATCAGAGTATTGATGATTCTACTCCTTGC
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 AAGGATTCTCTGACTAATAAAGGACATAAATGGAAGCAGGGGATGTGGTCCAAGGAAGAAATTGATTTT
 TGATGAACAATATTGAACGCTATCTTAAGGCACGCGGAATAAAGATGCTACAGAAATCATCTTTGAGAT
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 CAGATCCCATACTCCAACATCATCAGGAAGAATCAAATATCATTGGATCATCCTTGGGCAGTCTGTTC
 AGAAGATTCAAAGGATGTCAAGATTTGGTAAACTGTCAT

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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227951 representing NM_001142327
 Red=Cloning site Green=Tags(s)

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MSTVEEDSDTVTVETVNSVTLTQDTEGNLILHCPQNEADEIDSEDSIEPPHKRCLCSSEDDQSIDDSTPC
ISVVALPLSENDQSFVMTATTEVADDEVTEGTVTQIQILQNEQLDEISPLGNEEVSAVSQAWFTTKED
KDSLTKNGHKWKQGMWSKEEIDILMNNIERYLKARGIKDATEIIFEMSKDERKDFYRTIAWGLNRPLFAV
YRRVLRMYDDRNHVGYKYPTEEIEKLEKLRKIKHGNDWATIGAALGRSASSVKDRCLMKDTCNTGKWTEEE
EKRLAEVVELTSTEPGDIVTQGVSWAAVAERVGTRSEKQCRSKWLNKQSGGTEWTKEDEINLILR
IAELDVADENDINWDLLEAGWSSVRSPQWLRKSWWTIKRQIANHKDVSFPVLKGLKQLHENQKNNPTLL
ENKSGSGVPNSNTNSSVQHVQIRVARLEDNTAISSPMAALQIPVQITHVSSADSPATVDSETITLNSGT
LQTFEILPSFHLQPTGTPGTYLLQTSQQGLPLTLTASPTVTLTAAAPASPEQIIVHALSPEHLLNTSDN
VTVQCHTPRVIIQTVATEDITSSISQAELTVDSDIQSSDFPEPPDALEADTFPDEVHHPKMTVEPSFNDA
HVSXKFSQNSTELMNSVMVRTEEEISDTDLKQEEPSDLASAYVTEGLESPTEIEEQVDQTIIDETILIVP
SPHGFIAQSDVIDTESVLPPLTTLTDPILQHHQEEESNIIGSSLGSPVSEDSKDVEDLVNCH
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001142327

ORF Size: 2280 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_001142327.1](#), [NP_001135799.1](#)

RefSeq ORF: 2283 bp

Locus ID: 9988

UniProt ID: [Q9Y222](#)

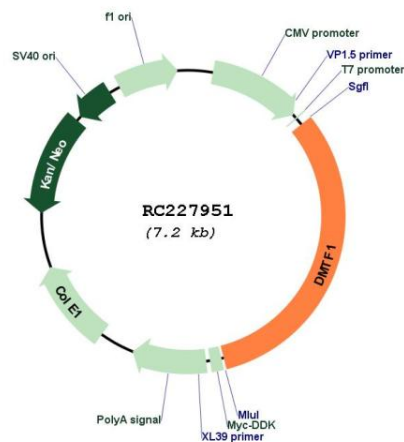
Cytogenetics: 7q21.12

Protein Families: Transcription Factors

MW: 84.3 kDa

Gene Summary: This gene encodes a transcription factor that contains a cyclin D-binding domain, three central Myb-like repeats, and two flanking acidic transactivation domains at the N- and C-termini. The encoded protein is induced by the oncogenic Ras signaling pathway and functions as a tumor suppressor by activating the transcription of ARF and thus the ARF-p53 pathway to arrest cell growth or induce apoptosis. It also activates the transcription of aminopeptidase N and may play a role in hematopoietic cell differentiation. The transcriptional activity of this protein is regulated by binding of D-cyclins. This gene is hemizyously deleted in approximately 40% of human non-small-cell lung cancer and is a potential prognostic and gene-therapy target for non-small-cell lung cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]

Product images:



Circular map for RC227951