

## Product datasheet for **RC227942**

### DMTF1 (NM\_001142326) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DMTF1 (NM_001142326) 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:**

>RC227942 representing NM\_001142326  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTGCAACCACAGAAGTAGCAGATGATGAGGTTACTGAGGGGACTGTGACACAGATACAGATTTTGC  
 AGAATGAGCAACTAGATGAAATATCTCCCTTGGGTAACGAGGAAGTTTCAGCAGTTAGCCAAGCATGGTT  
 TACAACAAAGAAGATAAGGATTCTCTGACTAATAAAGGACATAAATGGAAGCAGGGGATGTGGTCCAAG  
 GAAGAAATTGATATTTTATGAACAATATTGAACGCTATCTTAAGGCACGCGGAATAAAGATGCTACAG  
 AAATCATCTTTGAGATGTCAAAGACGAAAGAAAAGATTCTACAGGACTATAGCATGGGGTCTGAACCG  
 GCCTTTGTTTGCAGTTTATAGAAGAGTGCCTCGCATGTATGATGACAGAAACCATGTGGGAAAATATACA  
 CCTGAAGAAATTGAGAAGCTCAAGGAGCTCCGGATAAAGCATGGCAATGACTGGGCAACAATAGGGGCGG  
 CGCTAGGAAGAAGTGCATCTTGTCAAAGATCGGTGCCGACTGATGAAGGATACTTGAACACAGGGAA  
 GTGGACAGAAGAAGAAGAAAAGAGACTTGCAGAAGTGGTTCATGAGTTGACAAGCACTGAGCCAGGTGAC  
 ATAGTCACACAGGGTGTGTCTTGGGCAGCTGTGGCTGAACGAGTCCGTACCCGCTCAGAAAAGCAATGTC  
 GTTCTAAATGGCTCAACTACCTGAATTGAAAACAGAGTGGGGTACTGAATGGACCAAGGAAGATGAAAT  
 CAATCTCATCCTCAGGATAGCAGAACTTGATGTAGCTGATGAAAATGACATTAAGTGGGATCTGTTAGCT  
 GAGGGATGGAGTAGTGTCCGTTACCACAATGGCTACGAAGTAAATGGTGGACCATCAAAGGCAAAATTG  
 CAAACCATAAGGATGTTTCGTTCCCTGTCTTAATAAAGGTTCTTAAACAGTTACATGAGAACCAAAAAA  
 CAACCCACGCTTTTGGAGAATAATCAGGATCTGGAGTTCCAACAGTAATACCAATCCAGTGTGCAG  
 CATGTTCCAGATAAGAGTTGCCCGCTTGGAAAGATAATACAGCCATCTTCTAGCCCCATGGCAGCATTGC  
 AGATCCAGTCCAGATCACCCATGTTTCTCAGCAGACTCTCTGCTACCGTTGACTCAGAAAACAATAAC  
 ACTAAACAGTGGAACTACAGACATTTGAGATTCTCCCTCTTCCATCTACAGCCCACTGGCACTCCA  
 GGCACCTACCTACTTCAAACAAGCTCAAGCCAAGGCTTCCCCTAACTCTGACTGCTAGTCCCACAGTAA  
 CCCTGACAGCTGCTGCTCCTGCTCTCCTGAACAGATTATTGTTTCATGCTTTATCCCCAGAACATTTGTT  
 GAACACAAGTGATAATGTTACAGTGCAGTGTACACACCAAGAGTATCATTGACTGTTGCCACAGAG  
 GACATCACTTCTCCATATCCCAAGCAGAACTGACAGTCGATAGTGATATTCAGTCATCTGATTTTCCTG  
 AGCCTCCAGACGCCCTAGAAGCAGACACTTCCAGATGAAATTCATCACCCTAAGATGACTGTGGAGCC  
 ATCATTTAATGATGCTCATGTATCCAAATTCAGTGACCAAAATAGCACAGAACTGATGAATAGTGTATG  
 GTCAGAACAGAAGAAGAAATCTCTGACACCGACCTTAAACAAGAGGAATCACCCCTGATTTAGCCAGTG  
 CTTATGTTACTGAGGGTTTAGAGTCTCCCACTATAAGAAGAACAAGTTGATCAAACAATTGATGATGAAAC  
 AATACTTATCGTTCCTTACCACATGGCTTTATCCAGGCATCTGATGTTATAGATACTGAATCTGTCTTG  
 CCTTTGACAACACTAACAGATCCCATCTCCAACATCATCAGGAAGAATCAAATACATTGGATCATCCT  
 TGGGCAGTCTGTTTCAGAAGATTCAAAGGATGTCAAGATTTGGTAACTGTCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC227942 representing NM\_001142326  
Red=Cloning site Green=Tags(s)

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MTATTEVADDEVTEGTVTQIQILQNEQLDEISPLGNEEVSAVSQAWFTTKEDKDSLTKNGHKWKQGMWSK
EEIDILMNNIERYLKARGIKDATEIIFEMSKDERKDFYRTIAWGLNRPLFAVYRRVLRMYDDRNVHGKYT
PEEIEKLELRIKHGNDWATIGAALGRSASSVKDRCLMKDTCNTGKWTEEEEKRLAEVVHELSTSTEPGD
IVTQGVSWAAVAERVGTRSEKQCRSKWLNLYLNWKQSGGTEWTKEDEINLILRIAELDVADENDINWDLA
EGWSSVRSQPWLRSKWWTIKRQIANHKDVSFPVLKGLKQLHENQKNNPTLLENKSGSGVPNSNTNSSVQ
HVQIRVARLEDNTAISSSPMAALQIPVQITHVSSADSPATVDSETITLNSGLTQTFEILPSFHLQPTGTP
GTYLLQTSSSQGLPLTLASPTVTLTAAAPASPEQIIVHALSPEHLLNTSDNVTVQCHTPRVIIQTVATE
DITSSISQAELTVDSIQSSDFPEPPDALEADTFPDEIHHPKMTVEPSFNDAHVSFKSDQNSTELMNSVM
VRTEEEISDTDLKQEEPSDLASAYVTEGLESPTEEEQVDQTIIDETILIVSPHGFIAQSDVIDTESVL
PLTTLTDPILQHHQEESNIIGSSLGSPVSEDSKDVEDLVNCH
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001142326

**ORF Size:** 2016 bp

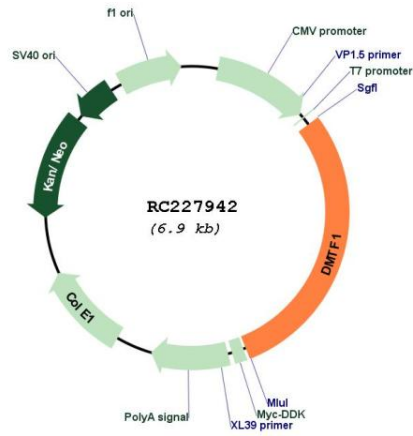
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001142326.1</a> , <a href="#">NP_001135798.1</a>
<b>RefSeq Size:</b>	3684 bp
<b>RefSeq ORF:</b>	2019 bp
<b>Locus ID:</b>	9988
<b>UniProt ID:</b>	<a href="#">Q9Y222</a>
<b>Cytogenetics:</b>	7q21.12
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	74.9 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RC227942