

## Product datasheet for **RG227951**

### DMTF1 (NM\_001142327) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DMTF1 (NM_001142327) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DMTF1
Synonyms:	DMP1; DMTF; hDMP1; MRUL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG227951 representing NM\_001142327  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCACAGTGGGAAGAGGATTCTGACACAGTAACAGTAGAAACTGTGAACTCTGTGACTTTGACTCAGG  
 ACACAGAAGGGAATCTCATTCTTCACTGCCCTCAGAATGAAGCGGATGAAATAGACTCAGAAGATAGTAT  
 TGAACCTCCACATAAAAAGGCTTTGTTTGTCTCTGAGGATGATCAGAGTATTGATGATTCTACTCCTTGC  
 ATATCAGTTGTTGCACTTCCACTTTCAGAAAATGATCAGAGCTTTGAAGTGACCATGACTGCAACCCACAG  
 AAGTAGCAGATGATGAGGTTACTGAGGGGACTGTGACACAGATACAGATTTTGCAGAATGAGCAACTAGA  
 TGAAATATCTCCCTTGGTAACGAGGAAGTTTCAGCAGTTAGCCAAGCATGGTTTACAATAAAGAAGAT  
 AAGGATTCTCTGACTAATAAAGGACATAAATGGAAGCAGGGGATGTGGTCCAAGGAAGAAATTGATTTT  
 TGATGAACAATATTGAACGCTATCTTAAGGCACGCGGAATAAAGATGCTACAGAAATCATCTTTGAGAT  
 GTCAAAAGACGAAAGAAAAGATTTCTACAGGACTATAGCATGGGGTCTGAACCGCCTTTGTTTGCAGTT  
 TATAGAAGAGTGTCTCGCATGTATGATGACAGAAACCATGTGGGAAAATATACACCTGAAGAAAATTGAGA  
 AGCTCAAGGAGCTCCGGATAAAGCATGGCAATGACTGGGCAACAATAGGGGCGGCCCTAGGAAGAAGTGC  
 ATCTTCTGTCAAAGATCCGGTCCGACTGATGAAGGATACTTGCAACACAGGGAAGTGACAGAGAAGAAGAA  
 GAAAAGAGACTTGCAGAAGTGGTTCATGAGTTGACAAGCACTGAGCCAGGTGACATAGTCACACAGGGTG  
 TGTCTTGGGCAGCTGTGGCTGAACGAGTCGGTACCCGCTCAGAAAAGCAATGTCGTTCTAAATGGCTCAA  
 CTACCTGAATTGGAACAGAGTGGGGTACTGAATGGACCAAGGAAGTGAATCAATCTCATCCTCAGG  
 ATAGCAGAACTTGATGTAGCTGATGAAAATGACATTAAGTGGGATCTGTTAGCTGAGGGATGGAGTAGTG  
 TCCGTTCCACCAATGGCTACGAAGTAAATGGTGGACCATCAAAGGCAAATTGCAAACCATAAGGATGT  
 TTCGTTCCCTGTCTTAATAAAGGTCTTAACAGTTACATGAGAACCACAAAAACAACCCCAACGCTTTTG  
 GAGAATAAATCAGGATCTGGAGTTCCAACAGTAAATACCAATTCCAGTGTGCAGCATGTTTCAGATAAGAG  
 TTGCCCGCTTGGAAAGATAATACAGCCATCTCTTAGCCCATGGCAGCATTGCAGATTCCAGTCCAGAT  
 CACCCATGTTTCTTACGACAGACTCTCCTGCTACCGTTGACTCAGAAACAATAACACTAAACAGTGGAAACA  
 CTACAGACATTTGAGATTCTCCCTCTTCCATCTACAGCCACTGGCACTCCAGGCACCTACCTACTTC  
 AAACAAGCTCAAGCCAAGGCCTTCCCCTAACTCTGACTGCTAGTCCCACAGTAACCCCTGACAGCTGCTGC  
 TCCTGCTTCTCCTGAACAGATTATTGTTTATGCTTTATCCCCAGAACATTTGTTGAACACAAGTATAAT  
 GTTACAGTGCAGTGTACACACCAAGAGTCATCATTGACTGTTGCCACAGAGGACATCACTTCTTCCA  
 TATCCCAAGCAGAACTGACAGTCGATAGTATTCAGTATCTGATTTTCCCTGAGCCTCCAGACGCCCT  
 AGAAGCAGACACTTTCCAGATGAAGTTCATCACCCCTAAGATGACTGTGGAGCCATCATTTAATGATGCT  
 CATGTATCCAAATTCAGTGACCAAAATAGCACAGAACTGATGAATAGTGTATGGTCAGAACAGAAGAAG  
 AAATCTCTGACACCGACCTTAAACAAGAGGAATCACCCCTGATTTAGCCAGTGTATGTTACTGAGGG  
 TTTAGAGTCTCCCACTATAGAAGAACAAGTTGATCAAACAATTGATGATGAAACAATACTTATCGTTTCT  
 TCACCACATGGCTTTATCCAGGCATCTGATGTTATAGATACTGAATCTGTCTTGCCTTTGACAACACTAA  
 CAGATCCCATACTCCAACATCATCAGGAAGAATCAAATATCATTGGATCATCCTTGGGCAGTCTGTTC  
 AGAAGATTCAAAGGATGTCAAGATTTGGTAAACTGTCAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG227951 representing NM\_001142327  
 Red=Cloning site Green=Tags(s)

MSTVEEDSDTVTVETVNSVTLTQDTEGNLILHCPQNEADEIDSSEDSIEPPHKRLCLSSEDDQSIDDSTPC  
 ISVVALPLSENDQSFVMTATTEVADDEVTEGTVTQIQILQNEQLDEISPLGNEEVSQAWFTTKED  
 KDSLTKNGHKWKQGMWSKEEIDILMNNIERYLKARGIKDATEIIFEMSKDERKDFYRTIAWGLNRPLFAV  
 YRRVLRMYDDRNHVGYKYPTEEIEKLEKLRKIKHGNDWATIGAALGRSASSVKDRCLMKDTCNTGKWTEEE  
 EKRLAEVVELTSTEPGDIVTQGVSWAAVAERVGTRSEKQCRSKWLNKQSGGTEWTKEDEINLILR  
 IAELDVADENDINWDLLEAGWSSVRSPQWLRKSWWTIKRQIANHKDVSFPVLKGLKQLHENQKNNPTLL  
 ENKSGSGVPNSNTNSSVQHVQIRVARLEDNTAISSPMAALQIPVQITHVSSADSPATVDSETITLNSGT  
 LQTFEILPSFHLQPTGTPGTYLLQTSQQGLPLTLTASPTVTLTAAAPASPEQIIVHALSPEHLLNTSDN  
 VTVQCHTPRVIIQTVATEDITSSISQAELTVDSDIQSSDFPEPPDALEADTFPDEVHHPKMTVEPSFNDA  
 HVSKFSDQNSTELMNSVMVRTEEEISDTDLKQEEPSDLASAYVTEGLESPTEIEEQVDQTIDDETILIVP  
 SPHGFIAQSDVIDTESVLPPLTTLTDPILQHHQEEESNIGSSLGSPVSEDSKDVEDLVNCH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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 Size:** 3801 bp

**RefSeq ORF:** 2283 bp

**Locus ID:** 9988

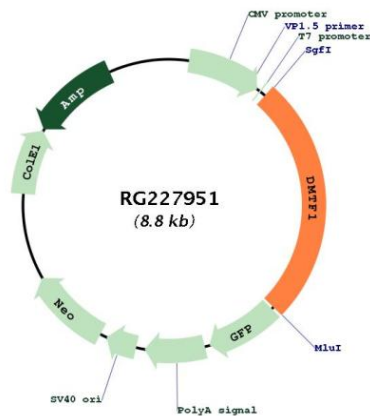
**UniProt ID:** [Q9Y222](#)

**Cytogenetics:** 7q21.12

**Protein Families:** Transcription Factors

**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 RG227951