

## Product datasheet for **SC325272**

### DMTF1 (NM\_001142326) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DMTF1 (NM_001142326) Human Untagged Clone
Tag:	Tag Free
Symbol:	DMTF1
Synonyms:	DMP1; DMTF; hDMP1; MRUL
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001142326, the custom clone sequence may differ by one or more nucleotides

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ATGACTGCAACCACAGAAGTAGCAGATGATGAGGTTACTGAGGGGACTGTGACACAGATA
CAGATTTTGCAGAATGAGCAACTAGATGAAATATCTCCCTTGGGTAACGAGGAAGTTTCA
GCAGTTAGCCAAGCATGGTTTACAACAAAGAAGATAAGGATTCTCTGACTAATAAAGGA
CATAAATGGAAGCAGGGGATGTGGTCCAAGGAAGAAATGATATTTTGATGAACAATATT
GAACGCTATCTTAAGGCACGCGGAATAAAGATGCTACAGAAATCATCTTTGAGATGTCA
AAAGACGAAAGAAAAGATTTCTACAGGACTATAGCATGGGGTCTGAACCGCCTTTGTTT
GCAGTTTATAGAAGAGTGCTTCGCATGTATGATGACAGAAACCATGTGGGAAAATATACA
CCTGAAGAAATTGAGAAGCTCAAGGAGCTCCGGATAAAGCATGGCAATGACTGGGCAACA
ATAGGGGCGGCGCTAGGAAGAAGTGCATCTTCTGTCAAAGATCGGTGCCGACTGATGAAG
GATACTTGCAACACAGGGAAGTGGACAGAAGAAGAAGAAAAGAGACTTGCAGAAGTGTT
CATGAGTTGACAAGCACTGAGCCAGGTGACATAGTCACACAGGGTGTGTCTTGGGCAGCT
GTGGCTGAACGAGTCGGTACCCGCTCAGAAAAGCAATGTCGTTCTAAATGGCTCAACTAC
CTGAATTGGAAACAGAGTGGGGTACTGAATGGACCAAGGAAGATGAAATCAATCTCATC
CTCAGGATAGCAGAACTTGATGTAGCTGATGAAAATGACATTAACCTGGGATCTGTAGCT
GAGGGATGGAGTAGTGTCCGTTACCACAATGGCTACGAAGTAAATGGTGGACCATCAAA
AGGCAATTGCAAACCATAAGGATGTTTCGTTCCCTGTCTTAATAAAAGGTCTTAAACAG
TTACATGAGAACCAAAAAACAACCAACGCTTTTGGAGAATAAATCAGGATCTGGAGTT
CCAAACAGTAATACCAATTCCAGTGTGCAGCATGTTTCAGATAAGAGTTGCCCGCTTGAA
GATAATACAGCCATCTCTTAGCCCCATGGCAGCATTGCAGATTCCAGTCCAGATCACC
CATGTTTCTTTCAGCAGACTCTCCTGCTACCGTTGACTCAGAAACAATAACACTAAACAGT
GGAACACTACAGACATTTGAGATTCTTCCCTCTTCCATCTACAGCCCCTGGCACTCCA
GGCACCTACCTACTTCAACAAGCTCAAGCCAAGGCCTTCCCCTAACTCTGACTGCTAGT
CCCACAGTAACCCCTGACAGCTGCTCCTGCTTCTCCTGAACAGATTATTGTTTCATGCT
TTATCCCCAGAACATTTGTTGAACACAAGTGATAATGTTACAGTGCAGTGTACACACCA
AGAGTCATCATTGACTGTTGCCACAGAGGACATCACTTCTTCCATATCCCAAGCAGAA
CTGACAGTCGATAGTGATATTGATCATCTGATTTTCTGAGCCTCCAGACGCCCTAGAA
GCAGACTTTCCAGATGAAATTCATCACCCCTAAGATGACTGTGGAGCCATCATTTAAT
GATGCTCATGTATCCAAATTCAGTGACCAAAATAGCACAGAACTGATGAATAGTGTATG
GTCAGAACAGAAGAAGAAATCTCTGACACCGACCTTAAACAAGAGGAATCACCCCTGAT
TTAGCCAGTGCTTATGTTACTGAGGGTTTAGAGTCTCCCACTATAGAAGAACAAGTTGAT
CAAACAATTGATGATGAAACAATACTTATCGTTCCCTTACCACATGGCTTTATCCAGGCA
TCTGATGTTATAGATACTGAATCTGTCTTGCCTTTGACAACACTAACAGATCCCATACTC
CAACATCATCAGGAAGAATCAAATATCATTGGATCATCCTTGGGCAGTCTGTTTCAGAA
GATTCAAAGGATGTCGAAGATTTGGTAAACTGTCAT
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001142326
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001142326.1](#), [NP\\_001135798.1](#)

**RefSeq Size:** 3684 bp

**RefSeq ORF:** 2019 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]

Transcript Variant: This variant (3) differs in the 5' UTR and lacks a 5' coding exon, compared to variant 1. These differences cause translation initiation at a downstream AUG and an isoform (b) with a shorter N-terminus compared to isoform a.