

## Product datasheet for **SC107975**

### DMTF1 (NM\_021145) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | DMTF1 (NM_021145) Human Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | DMTF1                                  |
| Synonyms:                 | DMP1; DMTF; hDMP1; MRUL                |
| Mammalian Cell Selection: | None                                   |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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Fully Sequenced ORF: >OriGene ORF within SC107975 sequence for NM\_021145 edited (data generated by NextGen Sequencing)

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ATGAGCACAGTGGAGAGGATTCTGACACAGTAACAGTAGAACTGTGAACTCTGTGACTTTGACTCAGG
ACACAGAAGGGAATCTCATTCTTCACTGCCCTCAGAATGAAGCGGATGAAATAGACTCAGAAGATAGTAT
TGAACCTCCACATAAAAAGGCTTTGTTTGTCTCTGAGGATGATCAGAGTATTGATGATTCTACTCCTTGC
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AAGTAGCAGATGATGAGGTTACTGAGGGGACTGTGACACAGATACAGATTTTGCAGAATGAGCAACTAGA
TGAATATCTCCCTTGGGTAACGAGGAAGTTTCAGCAGTTAGCCAAGCATGGTTTACAACATAAAGAAGAT
AAGGATTCTGACTAATAAAGGACATAAATGGAAGCAGGGGATGTGGTCCAAGGAAGAAATGATATTT
TGATGAACAATATTGAACGCTATCTTAAGGCACGCGGAATAAAGATGCTACAGAAATCATCTTTGAGAT
GTCAAAGACGAAAGAAAAGATTTCTACAGGACTATAGCATGGGGTCTGAACCGGCTTTGTTTGCAGTT
TATAGAAGAGTGCTTCGCATGTATGATGACAGAAAACCATGTGGGAAAATATACACCTGAAGAAATGAGA
AGCTCAAGGAGCTCCGGATAAAGCATGGCAATGACTGGGCAACAATAGGGGCGGCGCTAGGAAGAAGTGC
ATCTTCTGTCAAAGATCGGTGCCGACTGATGAAGGATACTTGCAACACAGGGAAGTGACAGAAAGAA
GAAAAGAGACTTGCAAGAAGTGGTTCATGAGTTGACAAGCACTGAGCCAGGTGACATAGTCACACAGGGTG
TGTCTTGGGCAGCTGTGGCTGAACGAGTCGGTACCCGCTCAGAAAAGCAATGTGCTTCTAAATGGCTCAA
CTACCTGAATTGGAAACAGAGTGGGGTACTGAATGGACCAAGGAAGTGAATCAATCTCATCCTCAGG
ATAGCAGAACTTGATGTAGCTGATGAAAATGACATTAAGTGGGATCTGTTAGCTGAGGGATGGAGTAGTG
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TTCGTTCCCTGTCTTAATAAAGGTCTTAACAGTTACATGAGAACCAAAAAACAACCCAAACGCTTTTG
GAGAATAAATCAGGATCTGGAGTTCCAACAGTAAATACCAATTCAGTGTGCAGCATGTTCCAGATAAGG
TTGCCCGCTTGGGAAGATAATACAGCCATCTCTTAGCCCCATGGCAGCATTGCAGATTCCAGTCCAGAT
CACCCATGTTTCTCAGCAGACTCTCCTGCTACCGTTGACTCAGAAAACAATAACACTAAACAGTGGAAACA
CTACAGACATTTGAGATTCTCCCTCTTCCATCTACAGCCCACTGGCACTCCAGGCACCTACCTACTTC
AAACAAGCTCAAGCCAAGGCCTTCCCCTAACTCTGACTGCTAGTCCCACAGTAACCCTGACAGCTGCTGC
TCCTGCTTCTCCTGAACAGATTATTGTTTCATGCTTTATCCCCAGAACATTTGTTGAACACAAGTATAAT
GTTACAGTGCAGTGCACACACCAAGAGTCATCATTGACTGTTGCCACAGAGGACATCACTTCTTCCA
TATCCCAAGCAGAACTGACAGTCGATAGTGATATTCAGTCATCTGATTTTCTGAGCCTCCAGACGCCCT
AGAAGCAGACACTTCCAGATGAAATTCATCACCTAAGATGACTGTGGAGCCATCATTTAATGATGCT
CATGTATCCAAATTCAGTGACCAAAATAGCACAGAACTGATGAATAGTGTATGGTCAGAACAGAAAG
AAATCTCTGACACCGACCTTAAACAAGAGGAATCACCTCTGATTTAGCCAGTGCTTATGTTACTGAGGG
TTTAGAGTCTCCCACTATAGAAGAAAGTTGATCAAACAATTGATGATGAAACAATACTTATCGTTCTCT
TCACCACATGGCTTTATCCAGGCATCTGATGTTATAGATACTGAATCTGTCTTGCCTTTGACAACACTAA
CAGATCCCATACTCCAACATCATCAGGAAGAATCAAATATCATTGGATCATCCTTGGGCAGTCTGTTTC
AGAAGATTCAAAGGATGTGCAAGATTTGGTAAACTGTCATAG
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Clone variation with respect to NM\_021145.3  
273:g=>a

|                                     |  |
|-------------------------------------|--|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_021145 unedited</p> <pre>TTGTAATACGACTCACTTATAGGGCGGCCGAATTCGCACGAGGGCCACTCTCGCCCGT GGCTGCTTCTCCATCCTGGTATTTTTGGAGCTTCCATCCTGGTTCTTCCAAAGTGCC GGACCCAAAACAGGAAAGTGTTCGGGAGATAGGAACATGGGAGAGAAACAATCTGGGTAA CATGAAAGTGATGCTGGTTGCTAAGGGAAGGCAACTTGATTCTGTGGGAAGGCTGTAGC TGATCCATCCGTTGTCTAGATTTGAGTATGAGCACAGTGAAGAGGATTCTGACACAGTA ACAGTAGAAACTGTGAECTGTGACTTTGACTCAGGACACAGAAGGGAATCTCATTCTT CACTGCCCTCAGAATGAAGCGGATGAAATAGACTCAGAAGATAGTATTGAACCTCCACAT AAAAGGCTTTGTTTGCCTCTGAGGATGATCAGAGTATTGATGATTCTACTCCTTGCCATA TCAGTTGTTGCACTTCCACTTTCAGAAAATGATCAGAGCTTTGAAGTGACCATGACTGCG ACCACAGAAGTAGCAGATGATGAGGTTACTGAGGGGACTGTGACACAGATACAGATTTTG CAGAATGAGCAACTAGATGAAATATCTCCCTTGGGTAACGAGGAAGTTTCAGCAGTTAGC CAAGCATGGTTTACAACAAAGAAGATAAGGATTCTCTGACTAATAAAGGACATANATGG AAGCAGGGGATGTGGTCCAAGGAAGAAATTGATATTTGATGAAAATATTGAACGCTATC TTAAGGCACGCGNATAAAGAGCTACAGAAATCATCTTTGAGATGTCANAAGACGAAGAA NAGATTCTACAGGATATAGCATGGGGTCTGAACCGGCCTTTGNTTGCAGTTATANAANA GTGCTCGCATGTTGATGACAGAACCATGTGGGAAATATACC</pre>         |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_021145 unedited</p> <pre>GTCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTAAAAACAATATTCT TTTTTTCTGTAAACTGAATATACAATTGTTCCCTAGGCAACCAACTTTTGCTTATAAC TACAATTTAATTTACGTTGACAAAACACAGTAAAAGACAACCTTTGTAAGATCTAATT ACAATAATAAATAAATAATTTATACAAGGTTTTTTTTTTCTTGACTTTTCTATAGGGGT CATATTCATTAATAAAGCCAAAAGGCTACCTTTGCCTTAACCCTTCTGTAGTACAGGAAT GATTCTTAAATTTGTTTCCTTTTGTATAAAAGCAAATATTGTTTTTTTTAAAATAGCCTG AGATGAGAGGTTATATTGTACCCACCAGCTAACACACTAAGTGGATGACAAACTATTCT CTCGGTAAATTTATATAGCAAAACATCTAATAAATGGTCATGGTATCAAGGATAGGTAAACA TTACTTCTTCTCATTAAAGTTTACTTCAAAGTGCTAACTTTGTAACTAATGACAGTG GTTTCTGAGGGGGTAAAACCTGCTTAGATTCTGGCGGGTTTTGTTACTATGCTTATCCAT ATTCCCTTTTAAAGTAAACAAAACCTGTAGAGAATTTAACTTTTAAATGCTTTTCTGTT TACCTGGCTAAACCAGCTCAACTGCCCCCATGGGTTAAACAAATGTACACCACAAAACC CCCCCTTACGCCTCTAACTTGAATTCTGTCCACATATCAATCTAAACCTTTTTCGAACAC CACCAGATCCCCGTAAGCCTCTCACCCTTTTGAACCTTGTCCACAAAACCTTTTCG ACCTCAACCCACCCTCTAGAGACCACCACCCTCTCTCTTCTTACAACACCTCTCTTC CCTACCCACCACCCTTCCGTCTCATCACACCCTCTCTGGCTAACTACG</pre> |
| <b>Restriction Sites:</b>           | NotI-NotI  |
| <b>ACCN:</b>                        | NM_021145  |
| <b>Insert Size:</b>                 | 3870 bp  |
| <b>OTI Disclaimer:</b>              | 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).   |
| <b>Components:</b>                  | 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\\_021145.2](#), [NP\\_066968.2](#)

**RefSeq Size:** 4052 bp

**RefSeq ORF:** 2283 bp

**Locus ID:** 9988

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

**Cytogenetics:** 7q21.12

**Domains:** myb\_DNA-binding

**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 hemizygotously 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 (1) encodes the longer isoform (a, also known as DMP1alpha). Variants 1 and 2 encode the same isoform.