

## Product datasheet for **MG224325**

### **Dmtf1 (NM\_011806) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dmtf1 (NM_011806) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dmtf1
Synonyms:	Dimp; Dmp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224325 representing NM\_011806  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCACAGTTGAAGAGGATTCTGACACAGTAACAGTAGAAACTGTGAACTCTGTGACGTTTACTCAGG  
 ACACGGACGGGAATCTCATTCTTCATTGCCCTCAGAATGACCCTGATGAAGTAGACTCAGAAGACAGTAC  
 TGAACCTCCACATAAGAGGCTTTGTTTGTCTCTGAGGATGATCAAAGCATTGATGACGCTACGCCATGC  
 ATATCAGTCGTGGCACTCCCACTTTAGAAAATGATCAGAGCTTTGAGGTGACCATGACGGCAACTACAG  
 AGGTGGCAGATGATGAACTTTCTGAGGAACTGTGACACAAATTCAGATTTTACAGAATGATCAACTAGA  
 TGAAATATCTCCATTGGTACTGAGGAAGTCTCAGCAGTTAGCCAAGCGTGGTTTACAATAAAGAAGAT  
 AAGGATTTCTCTACTAACAAAGGACATAAATGGAAGCAGGGGATGTGGTCCAAGGAAGAAATGATATTT  
 TAATGAACAACATCGAGCGCTATCTGAAGGCTCGCGGAATAAAGATGCTACAGAATCATCTTTGAGAT  
 GTCAAAAGACGAAAGAAAAGATTTCTACAGGACTATAGCGTGGGGCTGAACCGCCTTTGTTTGCAGTT  
 TATAGAAGAGTGTCTGCGCATGTATGATGACAGGAACCATGTGGGAAAATACACTCCTGAAGAGATCGAGA  
 AGCTCAAGGAGCTCCGGATAAAACACGGCAATGACTGGGCAACAATAGGGCGGCCCTAGGAAGAAGTGC  
 CTCTTCTGTCAAAGACCCTGCCGGCTGATGAAGGATACCTGCAACACAGGGAAATGGACAGAAGAAGAA  
 GAAAAGAGACTTGACAGAGGTAGTTCATGAATTAACAAGCACGGAGCCAGGTGACATCGTCACACAGGGTG  
 TGTCTTGGGCAGCTGTAGCTGAAAGAGTGGGTACCCGCTCAGAAAAGCAATGCCGTTCTAAATGGCTCAA  
 CTACCTGAACTGGAAGCAGAGTGGGGTACTGAATGGACCAAGGAAGTGAATCAATCTCATCCTAAGG  
 ATAGCTGAGCTTGATGTGGCCGATGAAAATGACATAAACTGGGATCTTTTAGCTGAAGGATGGAGCAGTG  
 TCCGTTACACACAGTGGCTTCAAGTAAATGGTGGACCATCAAAGGCCAAATTGCAAACCATAAGGATGT  
 TTCATTTCTGTCTTAATAAAGGCTTAAACAGTTACATGAGAACCAAAAAACAACCCAGTGCCTTTTG  
 GAGAATAAATCAGGATCTGGAGTTCAAACAGTAATTGCAATTCAGTGTACAGCATGTTTCAGATCAGAG  
 TCGCCCGCTTGAAGATAATACAGCCATCTCTCAAGCCCATGGCAGCGTTGCAGATTCAGTCCAGAT  
 CACCCAGTCTCTTCAACAGACTCCCCTGCTGCTTCTGTTGACTCAGAAACAATCACACTAAACAGTGGAA  
 AACTACAACATTTGAGATTCTTCCATCTTCCATTTACAGCCCACTGGTACTCCAGGCACCTACCTTC  
 TTCAAACAAGCTCAAGTCAAGGCCTTCCCCTAACACTGACCACAAATCCCACAGTAACCCCTGGCAGCTGC  
 TGCTCCTGCTTCTCCTGAACAGATCATTGTTTCATGCTTTATCCCAGAACATTTGTTGAACACAAGCGAT  
 AATGTCACGGTACAATGTCACACACCAAGAGTCATCATTACAGACGGTAGCTACAGAGGACATCACTTCTT  
 CATTATCCCAAGAGGAACTGACAGTTGATAGTGATCTTCAATTCATCTGATTTCCCTGAGCCTCCAGATGC  
 ACTAGAAGCAGACACTTTCCAGACGAAATTCCTCGGCCTAAGATGACTATAACAACCATATTTAATAAT  
 GCTCATGTATCTAAATTCAGCGACCAAAATAGCACAGAATGATGAACAGTGTGATGGTCAGAACAGAGG  
 AAGAAATTGCCGACACTGACCTTAAGCAGGAAGAACCCTGCTGACTTAGCCAGTGCTTATGTTACTGA  
 GGATTTAGAGTCTCCACCATAGTGCACCAAGTTCATCAGACAATTGATGATGAAACAATACTTATCGTT  
 CCTTCACTCATGGCTTTATCCAGGCATCTGATGTTATAGATACTGAATCTGCTTGCCTTTGACAACAC  
 TAACAGATCCAATATCCAGCATCATCAGGAAGCATCAAATAAATTGGATCATCTTTGGCAGTCTCTGT  
 TTCTGAAGACTCAAAGGATGTTGAGGACTTAGTAACTGTCAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG224325 representing NM\_011806  
 Red=Cloning site Green=Tags(s)

MSTVEEDSDTVTVETVNSVTFTQDTDGNLILHCPQNDPDEVSDSESTEPHKRLCLSSEDDQSIDDATPC  
 ISVVALPLSENDQSFVMTATTEVADDELSEGTVTQIQILQNDQLDEISPLGTEEVSAVSQAWFTTKED  
 KDLSLNKGGHKWKQGMWSKEEIDILMNNIERYLKARGIKDATEIIFEMSKDERKDFYRTIAWGLNRPLFAV  
 YRRVLRMYDDRNHVGYKYPTEEIEKLKELRIKHGNDWATIGAALGRSASSVKDRCLMKDTCNTGKWTEEE  
 EKRLAEVVELTSTEPGDIVTQGVSWAAVAERVGTRSEKQCRSKWLNKQSGGTEWTKEDEINLILR  
 IAELDVADENDINWDLLEAGWSSVRSPQWLRKSWWTIKRQIANHKDVSFPVLKGLKQLHENQKNNPVLL  
 ENKSGSGVPNSNCSSVQHVQIRVARLEDNTAISPSPMAALQIPVQITHVSSSTDSPAASVDSETITLNSG  
 TLQTFEILPSFHLQPTGTPGYLLQTSQQGLPLTLTNPVTVTLAAAAPASPEQIIVHALSPEHLLNTSD  
 NVTVQCHTPRVIIQTVATEDITSSLSQEELTVDSLHSSDFPEPPDALEADTFPDEIPRPKMTIQPSFNN  
 AHVSKFSDQNSTELMNSVMVRTEEEIADTLKQEEPPDLASAYVTEDESPTIVHVQVHQTIDDEILIV  
 PSPHGFIAQSDVIDTESVLPVLTTLTDPFQHHQEASNIIGSSLGSPVSEDSKDVEDLVNCH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011806

**ORF Size:** 2283 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\\_011806.3](#), [NP\\_035936.3](#)

**RefSeq Size:** 3755 bp

**RefSeq ORF:** 2286 bp

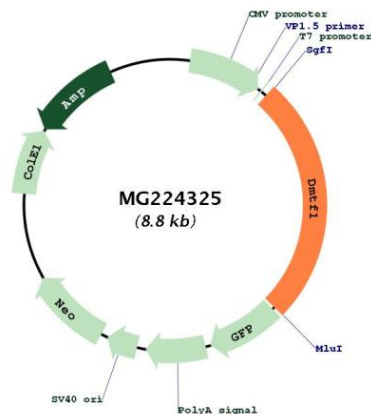
**Locus ID:** 23857

**UniProt ID:** [Q8CE22](#)

**Cytogenetics:** 5 A1

**Gene Summary:** Transcriptional activator which activates the CDKN2A/ARF locus in response to Ras-Raf signaling, thereby promoting p53/TP53-dependent growth arrest. May also cooperate with MYB to activate transcription of the ANPEP gene. Binds to the consensus sequence 5'-CCCG[GT]ATGT-3'. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG224325