

Product datasheet for MR206436

Dmtf1 (BC045141) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmtf1 (BC045141) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dmtf1
Synonyms:	Dimp, Dmp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206436 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCACAGTTGAAGAGGATTCTGACACAGTAACAGTAGAACTGTGAACTCTGTGACGTTTACTCAGG
ACACGGACGGGAATCTCATTCTTCATTGCCCTCAGAATGTTTCAGAAAATGATCAGAGCTTTGAGGTGAC
CATGACGGCAACTACAGAGGTGGCAGATGATGAACTTTCTGAGGAACTGTGACACAAATTCAGATTTTA
CAGAATGATCAACTAGATGAAATATCTCCATTGGGTACTGAGGAACTCAGCAGTTAGCCAAGCGTGGT
TTACAACAAAGAAGATAAGGATTCTCTACTAACAAGGACATAAATGGAAGCAGGGGATGTGGTCCAA
GGAAGAAATTGATATTTAATGAACAACATCGAGCGCTATCTGAAGGCTCGCGGAATAAAAGATGCTACA
GAAATCATCTTTGAGATGTCAAAGACGAAAGAAAAGATTTCTACAGGACTATAGCGTGGGGGCTGAACC
GGCCTTTGTTGTCAGTTTATAGAAGAGTGTGCGCATGTATGATGACAGGAACCATGTGGGAAAATACAC
TCCTGAAGAGATCGAGAAGCTCAAGGAGCTCCGGATAAAACACGGCAATGACTGGCAACAATAGGGGCG
GCCCTAGGAAGAAGTGCCTCTTCTGTCAAAGACCGCTGCCGGCTGATGAAGGATACCTGCAACACAGGGA
AATGGACAGAAGAAGAAGAAAAGAGACTTGACAGAGGTAGTTTATGAATTAACAAGCACGGAGCCAGGTGA
CATCGTCACACAGGGTGTGTCTTGGCAGCTGTAGCTGAAAGAGTGGGTACCCGCTCAGAAAAGCAATGC
CGTTCTAAATGGCTCAACTACCTGAACTGGAAGCAGAGTGGGGTACTGAATGGACCAAGGAAGATGAAA
TCAATCTCATCCTAAGGATAGCTGAGCTTGTGTCGCGGATGAAAATGACATAAACTGGGATCTTTTAGC
TGAAGGATGGAGCAGTGTCCGTTACCACAGTGGCTTCGAAGTAAATGGTGGACCATCAAAGGCAAATT
GCAAACCATAGGATGTTTCATTTCTGTGTACAGCATGTTTCCAGATCAGAGTCGCCCCGCTTGAAGATAA
TACAGCCATCTCTCAAGCCCCATGGCAGCGTTGCAGATTCCAGTCCAGATCACCCACGTCTCTTCAACA
GACTCCCCTGCTGCTTCTGTTGACTCAGAAACAATCACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206436 protein sequence
Red=Cloning site Green=Tags(s)

MSTVEEDSDTVTVETVNSVTFTQD TDGNLILHCPQNVSENDQSFEVTMTATTEVADDELSEGTVTQIQIL
 QNDQLDEISPLGTEEVSAVSQAWFTTKEDKDSL TNKGHKWKQGMWSKEEIDILMNNIERYLKARGIKDAT
 EIIIFEMSKDERKDFYRTIAWGLNRPLFAVYRRVLRMYDDRNHVGVKYPPEIEKLEKRIKHGNDWATIGA
 ALGRSASSVKDRCLMKDTCNTGKWTEEEKRLAEVVHEL TSTEPGDIVTQGVSWAAVAERVGTRSEKQC
 RSKWLNLYLNWKQSGGTEWTKEDEINLILRIAELDVADENDINWDL LAEGWSSVRSPOWLRSKWWTIKRQI
 ANHKDVSFPVYSMFRSESPAWKIIQPSLQAPWQRCRFQSRSP TSLQQTPLLLLLTQKQSH

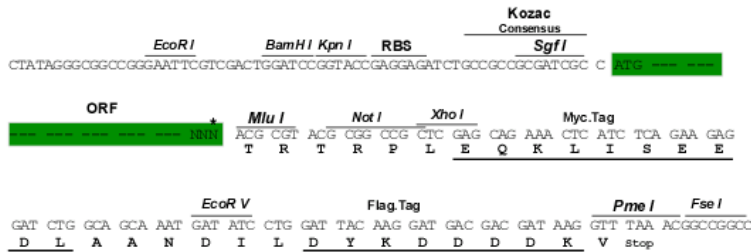
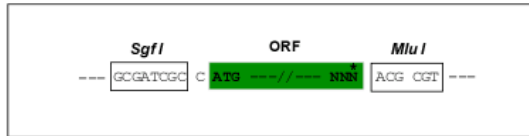
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC045141

ORF Size: 1230 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: [BC045141](#), [AAH45141](#)

RefSeq Size: 3510 bp

RefSeq ORF: 1232 bp

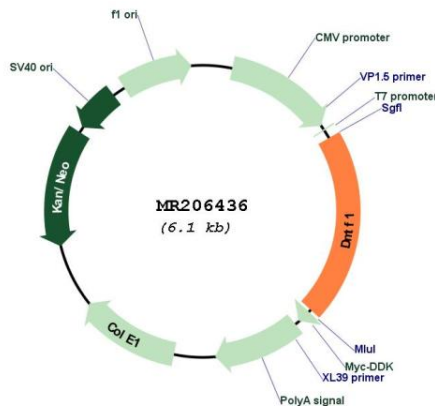
Locus ID: 23857

Cytogenetics: 5 A1

MW: 47.3 kDa

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 MR206436