

## Product datasheet for **MG221670**

### Tfdp1 (NM\_009361) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tfdp1 (NM_009361) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tfdp1
Synonyms:	Dp1; Drtf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221670 representing NM_009361 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAAAGATGCCAGTCTAATTGAAGCCAACGGAGAATAAAGGTCTTTATAGACCAGAATCTTAGTC  
CTGGGAAAGGTGTGGTATCTCTGTAGCCGTCACCCGTCACAGTCAACACACTTGGGAAGCAGCTTTT  
GCCAAAACCTTCGGACAGTCCAATGTCAATATCACACAGCAAGTGGTGATTGGCAGCCTCAGAGACCG  
GCAGCATCAACACTATTGTGGTAGGAAGCCACACACTCCCAACACGCATTTTGTGTACAGAACCAGA  
CGTCTGACTCCTCACCTTGGTCTGCTGGGAAGCGGAACAGGAAGGGCAGAGAAGAATGGCAAGGGCCTGCG  
GCATTTCTCCATGAAGGTGTGTGAGAAGGTGCAGAGGAAAGGAACACCTCCTACAATGAGGTGGCTGAC  
GAGCTGGTGGCAGAGTTCAGCGCTGCCGACAACCACATTTCTACCAACGAATCAGCTTATGACCAGAAGA  
ACATCCGGCGGCGTGTCTACGATGCCTTAAATGTGCTAATGGCCATGAACATCATCTCCAAGGAGAAGAA  
GGAGATCAAAATGGATCGGCCTGCCACCAACTCAGCTCAGGAGTGCCAGAACTTAGAGGTAGAGAGGCAG  
AGGAGGCTGGAGAGGATCAAACAGAAGCAGTACAGCTCCAGGAGCTCATCTGCAGCAAATTCCTTCA  
AGAACTTGGTGCAGAGAAATCGCCAAGCTGAGCAGCAGGCCCGCAGGCCGCTCCTCCAACCTGTGCAT  
TTTGAGTATCTGTTAACTTTGACAACAGTTTGAGATCCAGATGACATTGAGGTGCTCAAGCGCATGG  
GCATGGCATGTGGCTGGAGTCTGGCAACTGCTCTGCTGAAGACCTCAAGGTGGCCAGAAGTTTGGTACC  
AAAAGCTCTAGAACCATACGTGACAGAAATGGCTCAGGGATCCATTGGTGGAGTATTCGTCACGACAACA  
GGTTCTACATCCAATGGCACAAGGCTTTCTGCCAGTGATTTGAGCAATGGTGCAGATGGGATGCTGGCCA  
CGAGCTCCAATGGGTCTCAGTACAGCGCTCCAGGGTCGAGACCCCTGTGTCTACGTTGGGGAGGATGA  
TGACGACGATGATGACTTAAATGAGAACGACGAGGAGGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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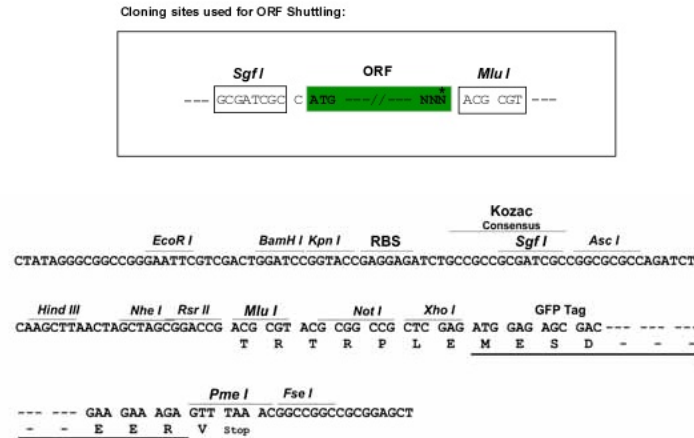
**Protein Sequence:** >MG221670 representing NM\_009361  
 Red=Cloning site Green=Tags(s)

MAKDASLIEANGELKVFIDQNLSPGKGVVSLVAVHPSTVNTLGKQLLPKTFGQSNVNITQQVVIGTPQRP  
 AASNTIVVGSPTHPTNTHFVSQNQTSDDSPWSAGKRNRKGEKNGKGLRHF SMKVCEKVQRKGTTSYNEVAD  
 ELVAEFSAADNHILPNESAYDQKNIRRRVYDALNVLAMMNIISKEKKEIKWIGLPTNSAQEQNLEVERQ  
 RRLERIKQKQSQLQELILQQIAFKNLVQRNRQAEQQARRPPPPNSVIHLPFIIIVNTSRKTVIDCSI SNDK  
 FEYLFNF DNTFEIHDDIEVLKRMGMACGLESGNCSAEDLKVARSLVPKALEPYVTEMAQGSIGGVFVTTT  
 GSTSNGTRL SASDLSNGADGMLATSSNGSQYSGSRVETPVSYVGEDDDDDDFNENDEED

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009361

**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:** [NM\\_009361.3](#), [NP\\_033387.1](#)

**RefSeq Size:** 1700 bp

**RefSeq ORF:** 1233 bp

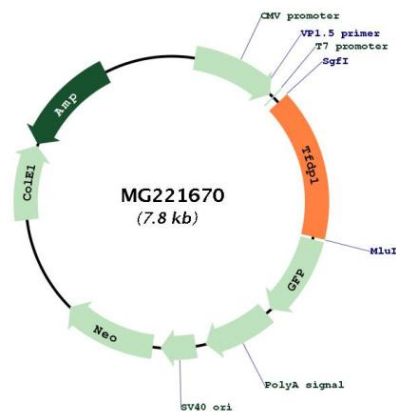
**Locus ID:** 21781

**UniProt ID:** [Q08639](#)

**Cytogenetics:** 8 A1.1

**Gene Summary:** Can stimulate E2F-dependent transcription. Binds DNA cooperatively with E2F family members through the E2 recognition site, 5'-TTTC[CG]CGC-3', found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The E2F1:DP complex appears to mediate both cell proliferation and apoptosis. Blocks adipocyte differentiation by repressing CEBPA binding to its target gene promoters (PubMed:20176812).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG221670