

## Product datasheet for **MG219761**

### Dffb (NM\_007859) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dffb (NM_007859) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dffb
Synonyms:	40kDa; 5730477D02Rik; CAD; CPAN; DFF40; Didff
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219761 representing NM_007859 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCGCGGTGCTCCGCCAACCCAAATGCGTCAAGTTGCGAGCCCTACATAGCGCCTGCAAGTTCGGCG  
TGGCGGCCGGAGCTGCCAGGAGCTGCTGCGTAAGGGCTGCGTCCGTTCCAGCTCCCGATGCCCGGTTCC  
CCGGCTGTGCTGTACGAAGATGGCAGGAGGTGACGGACGACTGCTCCCGGCCCTTCCAACGACGCT  
GAGCTCCTATTGCTCACCCTGGCGAGACCTGGCATGGCTATGTGAGTGACATCACAGTTTCTCAGTG  
TGTTTAATGAGCCACATGCCGGCGTCATCCAGGCTGCACGGCAACTGCTGTCAGATGAGCAGGCCCACT  
GAGGCAAAAGCTGCTGGCCGATCTTCTGCATCAGGTGAGCCAGAATTAATGTCAGAGACCCGGGAGCAG  
GACCCATCCTGGTTTGAAGGTTTGGAGTCGAGATTCAGGAATAAGTCGGGCTATCTGAGATACAGCTGTG  
AGAGTCGGATCCGGGGTTACCTAAGAGAGGTGAGCGCTTACACCTCTATGGTGGATGAAGCAGCTCAAGA  
AGAGTACCTGCGAGTCTTGGCTCCATGTGCCAGAAGCTCAAAATCGGTGCAGTACAATGGCAGCTATTTT  
GACAGAGGTGCAGAGGCCAGCAGCCGCTCTGTACTCCAGAAGGATGGTTCTCCTGCCAGGGCCCTTTG  
ACCTGGAGAGCTGTCTTTCCAAGCACTCCATCAACCCCTATGGCAACAGAGAGCCGGATCCTCTTCAG  
TACCTGGAACCTGGATCATATAATAGAGAAGAAGCGCACCGTGGTACCCACGCTGGCTGAAGCCATCCAG  
GATGGGAGGGAGGTGAAGTGGGAGTACTTCTACAGCCTGCTCTTCACTGCCGAGAACCTGAAGCTGGTGC  
ACATCGCCTGCCACAAGAAGACACACAAGCTGGAGTGGCAGCCGAGTAGGATCTATCGGCCTCAGACAGG  
ATCCAGGAGGAAGCAGCCTGCTCGGAAGAAGCGCCCTGCTCGGAAGCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG219761 representing NM\_007859  
 Red=Cloning site Green=Tags(s)

MCAVLRQPKCVKLRALHSACKFGVAARSCQELLRKGCVRFQLPMPGSRLCLYEDGTEVTDDCFPLPNDAL  
 ELLLLTAGETWHGYVSDITRFLSVFNPHAGVIQARQLLSDEQAPLRQKLLADLLHHVSNITAE TREQ  
 DPSWFEGLSESRFRNKSGYLRYSCESRIRGYLREVSAYTSMVDEAAQEEYLRVLGSMCQKLSVQYNGSYF  
 DRGAEASSRLCTPEGWFSCQGPFDLESLSKHSINPYGNRESRILFSTWNLDHIIIEKKRTVVPTLAEAIQ  
 DGREVNWEYFYSLLLFTAENLKLVHIACHKKKTHKLECDRSRIYRPQTGSRKQPARKKRPARKR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007859

**ORF Size:** 1032 bp

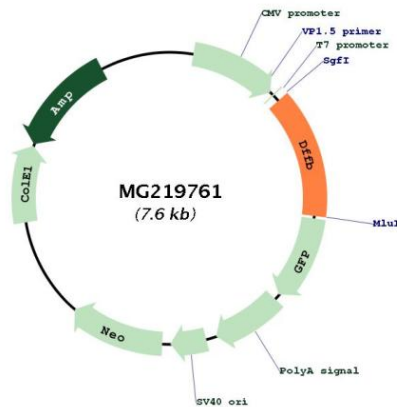
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_007859.4](#), [NP\\_031885.3](#)
- RefSeq Size:** 2073 bp
- RefSeq ORF:** 1035 bp
- Locus ID:** 13368
- UniProt ID:** [O54788](#)
- Cytogenetics:** 4 E2
- Gene Summary:** Nuclease that induces DNA fragmentation and chromatin condensation during apoptosis. Degrades naked DNA and induces apoptotic morphology.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG219761