

Product datasheet for **RG208266**

DFFB (NM_004402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DFFB (NM_004402) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DFFB
Synonyms:	CAD; CPAN; DFF-40; DFF2; DFF40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208266 representing NM_004402 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCCAGAAGCCCAAGAGCGTGAAGCTGCGGGCCCTGCGCAGCCCGAGGAAGTTCGGCGTGGCTGGCC
GGAGCTGCCAGGAGGTGCTGCGCAAGGGCTGTCTCCGCTTCCAGCTCCCTGAGCGCGTTCCCGGCTGTG
CCTGTACGAGGATGGCACGGAGCTGACGGAAGATTACTCCCCAGTGTTCCGACAACGCCGAGCTGGT
CTGCTCACCTTGGGCCAGGCCTGGCAGGGCTATGTGAGCGACATCAGGCGCTTCCTCAGTGCATTTACG
AGCCACAGGTGGGGCTCATCCAGGCCGCCAGCAGCTGCTGTGTGATGAGCAGGCCCCACAGAGGCAGAG
GCTGCTGGCTGACCTCCTGCACAACGTCAGCCAGAACATCGCGGCCGAGACCCGGGCTGAGACCCGCCG
TGGTTTGAAGGCTTGGAGTCCCGATTTTCAGAGCAAGTCTGGCTATCTGAGATACAGCTGTGAGAGCCGGA
TCCGGAGTTACCTGAGGGAGGTGAGCTCCTACCCCTCCACAGTGGGTGCGGAGGCTCAGGAGGAATTCCT
GCGGGTCTCGGCTCCATGTGCCAGAGGCTCCGGTCCATGCAGTACAATGGCAGCTACTTCGACAGAGGA
GCCAAGGGCGGCAGCCGCTCTGCACACCGGAAGGCTGGTTCTCCTGCCAGGGTCCCTTTGACATGGACA
GCTGCTTATCAAGACTCCATCAACCCCTACAGTAACAGGGAGAGCAGGATCCTCTTCAGCACCTGGAA
CCTGGATCACATAATAGAAAAGAAACGCACCATCATTCTACTGCTGGTGAAGCAATTAAGGAACAAGAT
GGAAGAGAAGTGGACTGGGAGTATTTTATGGCCTGCTTTTTACCTCAGAGAACCTAAACTAGTGCACA
TTGTCTGCCATAAGAAAACCCACCAAGCTCACTGTGACCCGAGCAGAATCTACAACCCAGACAAG
GTTGAAGCGGAAGCAGCCTGTGCCGAAACGCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208266 representing NM_004402
 Red=Cloning site Green=Tags(s)

MLQKPKSVKLRALRSPRKFGVAGRSCQEVLRKGCRLRFQLPERGSRLCLYEDGTELTEDYFSPVDPNAELV
 LLTLGQAWQGYVSDIRRFSAFHEPQVGLIQAAQQLLCDEQAPQRQLLADLLHNVSQNIAAETRAEDPP
 WFEGLESRFQSKSGYLRYSCESRIRSYLREVSSYPSTVGAEAEQEFRLVLSMCQRLRSMQYNGSYFDRG
 AKGGSRLCTPEGWFSQCQPFDMDSCLSRHSINPYSNRESRILFSTWNLDHIIIEKKRTIIPTLVEAIKEQD
 GREVDWEYFYGLLFTSENCLKLVHIVCHKKTTHKLNCDPSRIYKPQTRLKRKQPVRKRQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004402

ORF Size: 1014 bp

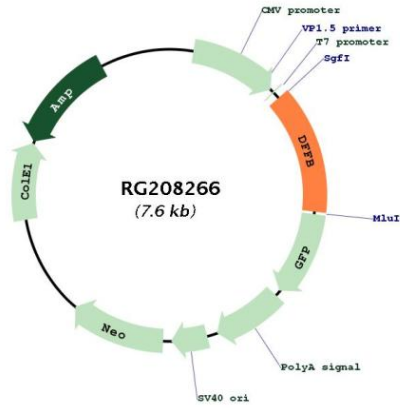
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_004402.1
RefSeq Size:	3034 bp
RefSeq ORF:	1017 bp
Locus ID:	1677
UniProt ID:	O76075
Cytogenetics:	1p36.32
Domains:	CAD
Protein Families:	Druggable Genome
Protein Pathways:	Apoptosis
Gene Summary:	<p>Apoptosis is a cell death process that removes toxic and/or useless cells during mammalian development. The apoptotic process is accompanied by shrinkage and fragmentation of the cells and nuclei and degradation of the chromosomal DNA into nucleosomal units. DNA fragmentation factor (DFF) is a heterodimeric protein of 40-kD (DFFB) and 45-kD (DFFA) subunits. DFFA is the substrate for caspase-3 and triggers DNA fragmentation during apoptosis. DFF becomes activated when DFFA is cleaved by caspase-3. The cleaved fragments of DFFA dissociate from DFFB, the active component of DFF. DFFB has been found to trigger both DNA fragmentation and chromatin condensation during apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene but the biological validity of some of these variants has not been determined. [provided by RefSeq, Sep 2013]</p>

Product images:



Circular map for RG208266