

## Product datasheet for SC335625

### DFFB (NM\_001282669) Human Untagged Clone

#### Product data:

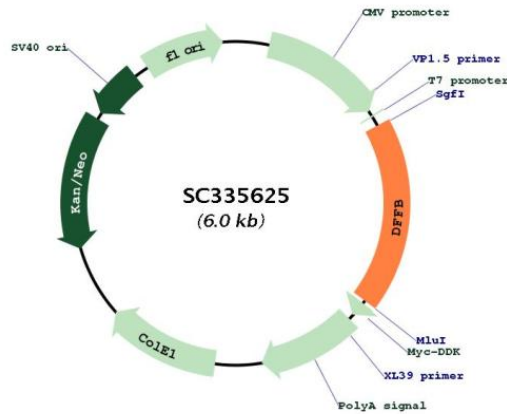
Product Type:	Expression Plasmids
Product Name:	DFFB (NM_001282669) Human Untagged Clone
Tag:	Tag Free
Symbol:	DFFB
Synonyms:	CAD; CPAN; DFF-40; DFF2; DFF40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335625 representing NM_001282669. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTCCAGAAGCCCAAGAGCGTGAAGCTGCGGGCCCTGCGCAGCCCGAGGAAGTTCGGCGTGGCTGGC
CGGAGCTGCCAGGAGGTGCTGCGCAAGGGCTGTCTCCGCTTCCAGCTCCCTGAGCGCGGTTCCCGGCTG
TGCCTGTACGAGGATGGCAGGAGCTGACGGAAGATTACTCCCCAGTGTCCCGACAACGCCGAGCTG
GTGCTGCTCACCTTGGGCCAGGCTGGCAGGGCTGTGAGTGGCAAGGACTTTGGAGGATGTGTCTTCTG
CTGGACCGGCACCTTTTGTCCATTGGTGGCAGATGTGAGCGACATCAGGGCTTCCTCAGTGCA
TTTCACGAGCCACAGGTGGGGCTCATCCAGGCCGCCAGCAGCTGCTGTGTGATGAGCAGGCCCCACAG
AGGCAGAGGCTGCTGGCTGACCTCCTGCACAACGTCAGCCAGAACATCGCGGCCGAGACCCGGGCTGAG
GACCCGCCGTGGTTTGAAGGCTTGGAGTCCCGATTTTCAGAGCAAGTCTGGCTATCTGAGATACAGCTGT
GAGAGCCGGATCCGGAGTTACCTGAGGGAGGTGAGCTCCTACCCCTCCACGGTGGGTGCGGAGGCTCAG
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TTCGACAGAGGAGCAAGGGCGGCAGCCGCTCTGCACACCGGAAGGCTGGTTCTCTGCCAGGGTCCC
TTTGACATGGACAGCTGCTTATCAAGACTCCATCAACCCTACAGTAAACAGGGAGAGCAGGATCCTC
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CTAAAAGTGTGACATTGTCTGCCATAAGAAAACCCACCAAGCTCAACTGTGACCCCAAGCAGAATC
TACAAAACCCAGACAAGTTGAAGCGGAAGCAGCTGTGCGGAAACGCCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001282669

**Insert Size:** 1089 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001282669.2](#)

**RefSeq Size:** 2905 bp

**RefSeq ORF:** 1089 bp

**Locus ID:** 1677

**Cytogenetics:** 1p36.32

**Protein Families:** Druggable Genome

**Protein Pathways:** Apoptosis

**MW:** 42 kDa

**Gene Summary:** 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]  
Transcript Variant: This variant (1) encodes the longer isoform (1).