

Product datasheet for **RG213228**

DATF1 (DIDO1) (NM_080796) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DATF1
Synonyms:	BYE1; C20orf158; DATF-1; DATF1; DIDO2; DIDO3; DIO-1; DIO1; dJ885L7.8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG213228 representing NM_080796
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACGACAAAGGCGACCCGAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTCA
 GGAAAAACATGGGGTTTTCGAAGGACCACTATCGCCAAGCGAGAGGGCGCAGGGGACGCGGAGGCTGACCC
 ACTGGAGCCGCCACCCCAACAGCAGCAGCTGGGCCTGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGC
 ACTGAGCGCGTGGAGCAGTTCTTGACCAATTGCGCGGCGCCGCGGCAGGAGGAGCATGCCTGTCTCCCTGG
 AGGATTTCTGGTGAGCCACGTCTGCCCGCCACAGACGCCGAGACAGCCTCCGAGGGCAGCGTGGAAAG
 CGCTTCTGAGACCAGAAGCGGGCCCCAGTCTGCTTCCACAGCTGTGAAGGAACGACCAGCCTCTTCTGAA
 AAGGTGAAAGGAGGGATGACCACGATGACACCTCCGATAGTGACAGCATGGCCTGACCTTGAAAGAGC
 TTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGCCCTGAAAGGGATCCAGAGTCG
 CCTGCGGAAGAAGCGCGGGAGGAGGTCCCGCCGAGACTGTGGGCTCCGAGGCCAGTGACACTGTGGAG
 GGCGTCTGCCAGTAAGCAGGAGCCGAGAACGATCAGGGGTTGTGTCCAGGCTGGGAAAGATGACA
 GAGAGAGTAAGTTGGAGGGAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTTGGGCCGACC
 GAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAAACAGG
 TTTATGATTTGCTGTGACCGCTGTGAAGATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAG
 GGAGGCTTTTGGAAAGGAATGGGGAAGACTATATCTGCCCAAACGCACCATTTGCAAGTGCAAGATGA
 GACTCATTCAGAAACGCGAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGT
 ACAAGTATAGGAACAATAGAGCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTGAATGAGAAAGCTG
 CAAATCCAAGTGGCAAGAAGAACTCAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAATG
 TATTGGCCCCGGGTGCTGTACGTGGCGCAGCCGACTCGGTGTACTGCAGTAATGACTGTATCCTCAAA
 CACGCCGACGCGACAATGAAGTTTCTAAGCTCAGGTAAGAACAGAAAGCCAAAGCCTAAAGAAAAGATGA
 AGATGAAGCCAGAGAAGCCAGTCTTCCGAAATGCGGTGCTCAGGCAGGTATTAATCTCTTCTGTGCA
 CAAGAGACCAGTCCAGAAAAAAGAGACCACAGTGAAGAAGGCAGTGGTGGTCCCTGCGCGGAGTGAA
 GCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCAGCCGTCGTGGGCGAGCGATCACAATTACAATGCAG
 TAAAGCCAGAAAAGACTGCTGCTCCCTGCGCGTCACTGTTGTATAAATGTATGTATCACCTAGGGGTTGG
 CCTCTGGACCCCTCCCGTTCTTCTGGATAGCATCCCTGGGCTGTCCAGGACTGGGAGTTGCAGCT
 TTGTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

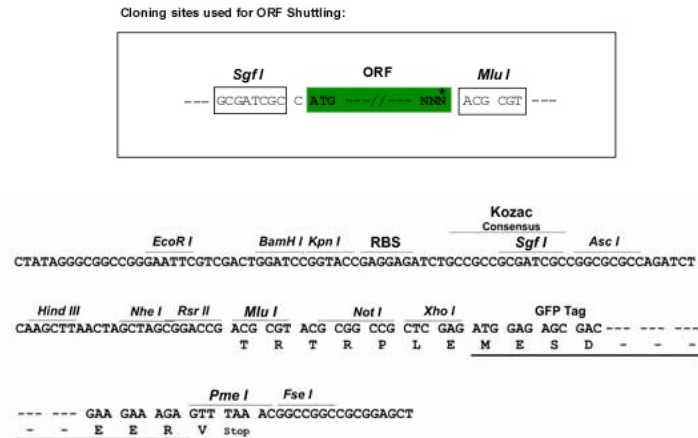
Protein Sequence: >RG213228 representing NM_080796
 Red=Cloning site Green=Tags(s)

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKR
 TERVEQFLTIARRRGRRSMPVSLSDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSE
 KVKGGDDHDDTSDSDGLTLKELQNRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVE
 GVLPSKQEPENDQGVVSQAGKDDRESKLEKAAQDIKDEEPDGLGRPKPECEGYDPNALYCICRQPHNNR
 FMICCDRCEEWFHGDVGISEARGRLLRNGEDYICPNCTILQVQDETHSETADQQAQWRPGDADGTDG
 TSIQTIEQKSSDQGIKGRIEKAANPSGKKLKIIFQPVIEAPGASKCIGPGCHVAQPDVSVYCSNDCILK
 HAAATMKFLSSGKEQKPKPEKMKMKPEKPSLPKCGAQAGIKISSVHKRPAPEKKETTVKKAVVVPARSE
 ALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPSLLYKCMYHLGVLLDPSRSFWIAIPWACPGLGVAA
 LC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080796

ORF Size: 1686 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_080796.3](#), [NP_542986.1](#)

RefSeq Size: 2800 bp

RefSeq ORF: 1689 bp

Locus ID: 11083

UniProt ID: [Q9BTC0](#)

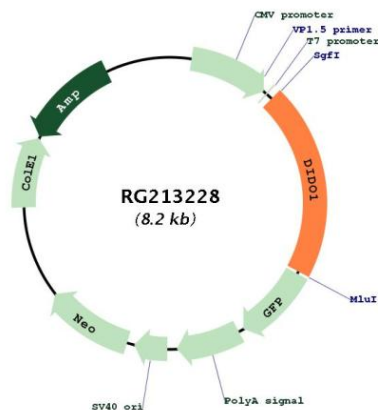
Cytogenetics: 20q13.33

Domains: PHD

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: Apoptosis, a major form of cell death, is an efficient mechanism for eliminating unwanted cells and is of central importance for development and homeostasis in metazoan animals. In mice, the death inducer-obliterator-1 gene is upregulated by apoptotic signals and encodes a cytoplasmic protein that translocates to the nucleus upon apoptotic signal activation. When overexpressed, the mouse protein induced apoptosis in cell lines growing in vitro. This gene is similar to the mouse gene and therefore is thought to be involved in apoptosis. Alternatively spliced transcripts have been found for this gene, encoding multiple isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG213228