

## Product datasheet for **RG213278**

### **DATF1 (DIDO1) (NM\_080797) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DATF1 (DIDO1) (NM_080797) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DIDO1
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:	>RG213278 representing NM_080797 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGACAAAGGGCAGCCGAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTCA  
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CGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCACAGCTGTGAAGGAACGACCAGCCTCTTCTGAA  
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GACTCATTGAGAAACGGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGT  
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GCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGTGGGCGAGCGATCACAATTACAATGCAG  
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GCCGCTTTGGTGTGTAGCTAATAACAACAGGCACGTCAAGGACCTCTACCTGATCCCGCTGAGCGCCCA  
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

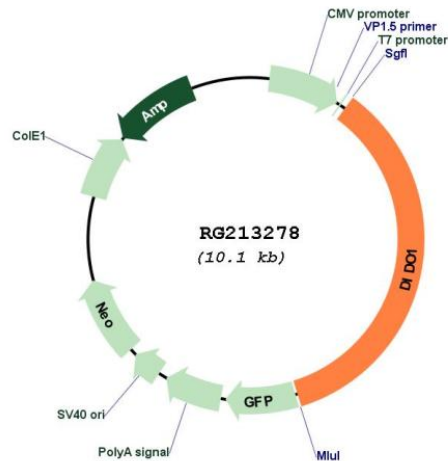
**Protein Sequence:** >RG213278 representing NM\_080797  
 Red=Cloning site Green=Tags(s)

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKR  
 TERVEQFLTIARRRRRRSMPVSLSDSGETSCPATDAETAEGSVESASETRSGPQSASTAVKERPASSE  
 KVKGGDDHDDTSDSDSDGLTLKELQNRLRRKREQEPTEPLKGIQSRLRKKRREEGPAETVGEASDVE  
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 FMICCDRCEEFHGDVGISEARGRLLENGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTD  
 TSIGTIEQKSSDQGIKRIEKAANPSGKKLKFQPVIEAPGASKCIGPGCCHVAQPDVSVYCSNDCILK  
 HAAATMKFLSSGKEQKPKPEKMKMKEKPSLPKCGAQAGIKISSVHKRPAPEKKETTIVKAVVVPARSE  
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 PAPERLVPKSSFANVAATPAIKKPPSGFKGTIPKRPWLSATPSSGASARQAGPAPAAATAASKKFP  
 SAALVGAVRKPVPVSPMASPAPGRLGAMSAAPSQNSQIRQNIIRSLKEILWKRVNDSDDLIMTENEVG  
 KIALHIEKEMFNLFQVTDNRYKSKYRSIMFNLDKPNQGLFHRVLRREEISLAKLVRLKPEELVSKELSTW  
 KERPARSVMESRTKLHNESKKTAPRQEAIPDLESDPPVSDSEEQQESARAVPEKSTAPLLDVFSSMLKDT  
 TSQHRAHLFDLNCKICTGQVPSAEDEPAPKKQKLSASVKKEDLKSXKHDSSAPDPAPDPADEVMPEAVPEV  
 ASEPLESASHPNVDRTYFPGPPGDGHPSPLEDLSPCPASCSSGVTTVTVSGRDPRTAPSSSCTAVA  
 SAASRPDSTHMVEARQDVPKPVLTSVMVPKSIKAKPSSSPDPRLSVPPSPNISTSESRSPEGDITLFL  
 SRLSTIWKGFINMQSVAKFVTKAYPVSGCFDYLSDELPTIHIGGRIAPKTVWDVYVGLKSSVSKELCLI  
 RFHPATEEEEVAYISLYSYFSSRGRFGVANNRHRVKDLYLIPLSAQDPVPSKLLPFEGPGKRRLSGWR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI  
**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_080797

**ORF Size:** 3567 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\\_080797.4](#)

**RefSeq Size:** 7657 bp

**RefSeq ORF:** 3570 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-obliterators-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]