

## Product datasheet for **SC305555**

### **DATAF1 (DIDO1) (NM\_033081) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DATAF1 (DIDO1) (NM_033081) Human Untagged Clone
Tag:	Tag Free
Symbol:	DIDO1
Synonyms:	BYE1; C20orf158; DATAF-1; DATAF1; DIDO2; DIDO3; DIO-1; DIO1; dj885L7.8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305555 representing NM_033081. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGACGACAAAGGCGACCCGAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTC
AGGAAAACATGGGGTTTTCGAAGGACACTATCGCCAAGCGAGAGGGCGCAGGGGACGGGAGGCTGAC
CCACTGGAGCCGCCACCCACAGCAGCAGCTGGGCTGTCCCTGCGGCGCAGTGGGAGGAGCCCAAG
CGCACTGAGCGCGTGGAGCAGTTCCTGACCATTGCGCGGCCCGCGGCAGGAGGAGCATGCCTGTCTCC
CTGGAGGATTCTGGTGAAGCCACGTCCTGCCCGCCACAGACGCCGAGACAGCCTCCGAGGGCAGCGTG
GAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCACAGCTGTGAAGGAACGACCAGCCTCT
TCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGATGGCCTGACCTTG
AAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGCCCTGAAAGGGATC
CAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCC GCCGAGACTGTGGGCTCCGAGGCCAGTGAC
ACTGTGGAGGGGCTCTGCCAGTAAGCAGGAGCCGAGAACGATCAGGGGGTTGTGTCCAGGCTGGG
AAAGATGACAGAGAGAGTAAGTTGGAGGGAAAGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGAC
TTGGGCCGACCGAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCT
CACAACAACAGGTTTATGATTTGCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATT
TCTGAGGCTCGAGGGAGGCTTTTGGAAAGGAATGGGAAGACTATATCTGCCCAAAGTGCACCATCTCG
CAAGTGCAGGATGAGACTATTCAGAAACGGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCT
GATGGCACCGATTGTACAAGTATAGGAACAATAGAGCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGT
AGAATTGAGAAAGCTGCAAAATCCAAGTGGAAGAAGAACTCAAGATCTTCCAGCCTGTGATAGAGGCG
CCTGGTGCCTCAAAATGTATTGGCCCGGGTGTGTACAGTGGCGCAGCCGACTCGGTGTACTGCAGT
AATGACTGTATCCTCAAACACGCCGAGCGACAATGAAGTTTCTAAGCTCAGGTAAGAACAAGCAAGCCA
AAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCAGTCTCCGAAATGCGGTGCTCAGGCAGGT
ATTAATAATCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGAAGAAGGCAGTG
GTGGTCCCTGCGGGAGTGAAGCACTCGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGCTGTGGGCG
```



[View online »](#)

AGCGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGCTCACTGTTGTATAAA  
 TCCACGAAGGAAGACAGGAGGTCCGAGGAGAAAGCGGCAGCCATGGCAGCCTCAAAGAAAACAGCCCT  
 CCAGGCTCCGCGGTGGCAAGCAGCCTGCACCTAGAAACCTCGTGCCAAAGAAGTCTTCTTTTGCTAAT  
 GTGGCAGCAGCCACACCAGCCATTAAGAAAGCCACCCTCAGGTTTCAAGGGCACCATCCCCAAGAGGCCA  
 TGGCTCTCCGCTACCCCATCGAGTGGTCTTACAGTCCAGGCAGGCCGACCGGCACCTGCAGCGGCA  
 ACGGCTGCCTCCAAGAAGTTCCTGGCTCCGCTGCTTTGGTGGGAGCCGTAAAGAAAGCCAGTGGTACCT  
 TCTGTTCCAATGGCCTCGCCAGCCAGACGCCTTGGGGCTATGAGTGCCTGCACCATCGCAGCCAAAT  
 TCACAAAATTCGGCAAAATATCAGACGCTCCTTAAAGAGATTTTGTGAAAAGAGTCAATGACAGCGAT  
 GACTTAATCATGACAGAAAACGAAGTAGAAAAATTGCCCTCCATATTGAGAAGGAGATGTTAACTTG  
 TTTCAAGTTACAGATAATCGCTACAAGAGTAAATATCGCAGCATCATGTTCAACCTGAAGGACCCTAAA  
 AATCAGGGACTCTTCCATCGTGTCTGCGTGAGGAAATCTCTTTGGCGAAACTTGTGAGACTGAAGCCA  
 GAAGAACTTGATCTAAAGAGCTTCCACGTGGAAGAGAGGCCAGCGAGATCTGTGATGGAGTCCAGA  
 ACTAAACTGCACAATGAAAGCAAGAAGACGGCCCCAGGCAGGAGGCCATCCCCGATCTGGAGGACTCT  
 CCGCCAGTGTCCGATTACAGAGAACAGCAAGAGTACGACGTGCTGTCCCTGAGAAGAGCACAGCGCCG  
 CTTCTCGACGTCTCAGCAGCATGTTGAAAGACACCACAGTACGACCCGCGCACACCTCTTCGATCTC  
 AACTGTAAAATTTGCACAGGCCAGGTTCCCTCCGAGAAAGATGAGCCAGCTCCGAAAAAACAAAAATTG  
 TCAGTCTCTGTTAAGAAAGAAGACTTAAAATCAAAGCATGACAGCTCTGCACCTGACCCAGCTCCGGAT  
 TCAGCTGATGAGGTGATGCCGGAGGCTGTGCCTGAAGTTGCCTCTGAGCCAGGCCAGAAAGTGTCTCT  
 CATCCAAATGTGGACAGAACGTATTTCCCTGGGCTCCAGGAGATGGCCATCCCAGCCCTCCCCGCTG  
 GAAGACCTGTCCCCGTCGCCAGCCTCCTGTGGGAGCGGGTGGTACCACCGTACAGTGTCCGGCCGG  
 GACCCAGGACCCTCCAAGCAGTTCATGCACAGCCGTGGCTCCGAGCATCCCAGCAGACAGCACC  
 CACATGGTGAAGCCAGACAGGATGTCCGAAGCCTGTCTTGACTTCTGTGATGGTGCCTAAGTCCATA  
 CTAGTAAGCCATCTCATCTCCTGACCAAGATACCTGTCAGTTCCTCCGTCACCAAAATACAGCACT  
 TCAGAATCACGTTCCCTCCAGAGGGAGACACACCCTCTTTTTGTCTCGACTCAGCACCAATTTGAAAA  
 GGATTTATTAACATGCAGAGTGTGGCAAAATTTGTCACTAAGGCGTATCCTGTCTCTGGGTGTTTTGAT  
 TACCTCAGTGAGGATTTGCCTGACACAATTCACATTGGTGGGAGGATCGCACCGAAGACAGTTTGGGAT  
 TATGTTGGCAAACCAAGTCTTCTGTGTCTAAGGAGCTCTGTCTGATCCGCTTCCACCCCGCCACAGAG  
 GAAGAGGAGTGCCTATATCTCTCTACTCCTATTTACAGCAGCCGTGGCCGCTTTGGTGTGTAGCT  
 AATAACAACAGGCAGTCAAGGACCTCTACCTGATCCCCTGAGCGCCAGGACCCTGTTCCATCCAAA  
 CTCTTGCCCTTTGAGGGACCAGGCTTGTAGTACCACGTCGGAATATAATTCTTGGGTTAGTAACTGC  
 CAAAAATCAAAGTCCCAGAACAGTGGAGGTTAGACAAGATGGACGAAAAGCGGACCCGACTTCAA  
 CCGGAAGAAGCGGACGTTCCGGCCTATCCAAAAGTAGCCACAGTCCCGCAGTCCGAAAAGAGCCCTCC  
 AAGTATCCACTCTGCTCTGCAGACGCGGCTGTACGACCACACCTCCTGGGTCCGCCGCGCTCCGCCC  
 CCTCTTCCAGAACCACCGGTGCTAAAAGTGTGTATCCCTCAAACCTGCAGCCCCAGCCAGCCACA  
 GCAGCCACAACAGCAGCGGCAGCCTCCACGGCAGCTTCTCCACCGCTTCGTCTGCTTCCAAAACAGCA  
 TCACCGCTGGAGCACATCCTGCAGACTCTTTGGAAAGAAGAAATCATTGACCCGTCCGCCAGAGAG  
 CCTCCCGGTCCACCGCAGGCTCCCCAGGAGCCAAAACACAGCAGAGGACGGGGTCCCGGCACCT  
 CCGTGTGTAGATCCGATCGTCCAGCAGTTCGGTCAAGTCTCAAAGATAAGGCTCTAGAGGAAGAGGAG  
 GACGACAGGCCATACGACCCTGAGGAGGAGTACGACCCGAGAGGGCCTTCGACACTCAGCTTGTGGAG  
 CGAGGGCGGCCACGAGGTGGAAGGGCTCCTGAAGCAGTGCAGCCGAGCGGGAAGAGGTGGCCTAT  
 GACCCCGAGGATGAGACCATCTTAGAAGAAGCGAAAGTACTGTTGATGACCTGCCAACAGGATGTGT  
 GCCGACGTGAGAAGAACTCCGTGGAGAGGCTGCCGAGCCGTTGGCCGGGGTGCAGCGCCTCCCTG  
 GTGGAGCAACAGAAGATGCTAGAAGAGTGAACAAACAGATCGAGGAGCAGAAGAGACAGCTGGAGGAG  
 CAAGAAGAAGCTCTCAGGCAGCAGAGGGCCGCTCGGGTCTCCATGGCCACTTCTCGGTGTCCGAC  
 GCCTTGTGTCTCCACCACAAAGTCGTCTTGGCCAAGCAGAGCTGTTCCAGCAAGAGCAGCAGTCT  
 GCAGACAAGCCGCTCACTGCCCCCGCCAGCCAGGCGTCAAACCACAGGGACCCCGGCAGGCGAGG  
 CGCTGGCCACTGAGACCGGTGAGGGGGAGGGGAGCCTCTCTCAGGCTCTCGGCAGTGGTGCCAG  
 GGTGCCCTGCCGAGAGAGATGCTTCCAGGGTGGCCTCGTGGCCAGGCGCCATGCCAGTCCCGGAG  
 GAAAAAGAGCCAGCCTTCCCCCTGGGCTTCGGGCGAAAAGCCCCAGCGGGTCCGAGCAGGACGGC  
 TGGAAGGCAGAGCCTGGGGAGGGCACCCGCCCGCCACGGTTGGAGACAGCTCGGCCAGGCTGCCCGG  
 AGGGTGTCTGCCACACCGCCTTGGCGGCCCTGCAGCCCGCTTCCGCTGCAGCAGCAGCGGTGAG  
 AGGGACCTTTCACCTGCCCGGGTTCGCGTGCAGGACAAGGCTCTCGGCTCAGCCAGTATGAGGAC

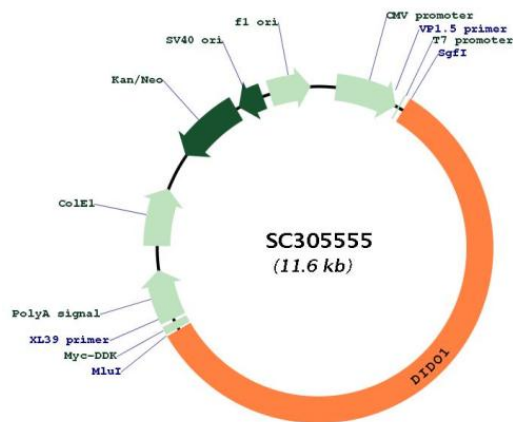
```

CCAAGAAATCTTCATTCTGCTGGAAGGAGCAGCAGCCCTGCAGGTGAAACAGAGGGGGACAGAGAGCCA
CAGGCCAGACCCGGCGAGGGCACC GCCCCGCTCCCCACCAGGACAGAAAGTGGGGGGCTCTCAGCCC
CCGTTTTCAGGGTTCAGCGGGAACCTGGACCTCATGCTTTGGGGATGTCAGGGCTTCACGGCCCAATTTT
CCGGGACCAAGGGGGCCAGCCCCCTCGTTTCCAGAAGAGAATATCGCTTCTAACGATGGGCCACGAGGG
CCTCCGCCAGCCAGATTCGGAGCCCAGAAGGGGCCATCCCTTCTTATTCTCGGGCAACATGGGCCA
CAATTTGAAGAACGCAAGGATCCCCATGGGGAGAAGAGGGAGTTCAGGACGCCCCGTATAACGAGGTG
ACGGGCGCCCCGCCAGTTTGAAGGGACAGAGCAAGCCCCATTTCTGGGAAGCAGAGGGCGCGCCT
TTCAGATTTCGGAGGCCAGAGAAGGCCACTGCTGTCTCAGCTGAAAGGCCCCCGAGGCGGGCCCCCTCCC
TCTCAGTTTGGAGGTTCAGAGAGGACCACCCCTGGTCAATTCGTGGGCCCAAGAGGGCCCCATCCTAGT
CAGTTTGAAACTGCCCGGGGCCCTCATCCCAACAGTTTGAAGGACCCAGAGGCCAAGCGCTAACTTT
ATGCCAGTCCCAGGGGACTTCAGCCTCAGCAGTTCGAAGACCAGAGGGTCCATTACCACCAAGATTC
ACAAACCAAGGGCGCCTGCACCCTGCAGTTTGGTGGACTACGGGGTCCGACCCTTTTCTGAAAAA
AATGAGCAGACCCCTTCGCGATTTCACTCCAGGGCCAGGCCCGCAGGTGATGAAGCCGGGCCCCAGG
CCCCTGCTGGAGCTTCCAGCCACCCCGCAGCACCGGAAGGACCGCTGGGAGGAGCCGGGCCGCC
TCCGCGCTCTCCTCCAGTGCGCCGGACAGGGCCCCGAGGCCACGAGGACGTGGGCATCGGCCACTTC
CGAGAGGGGAAAGGCCACGAATACAGAAACCAGACTTTCGAAGGGAGGCAGAGAGAGCGGTTTGACGTG
GGGCCAAAGAGAAGCCGCTGGAGGAGCCGACGCCAGGGCCGGGGCTCCGAGGACAGGAGGAGAGAG
CGCGAGCGCGGCCGAAACTGGAGCCGAGAGCGGGACTGGGACCGGCCCGGGAGTGGGACCGACACCGG
GACAAGGACTCCAGCCGGGACTGGGACAGAAACCGGGAGAGGAGCGCCAACCGCGACCGAGAGCGCGAG
GCCGACCGGGCAAGGAGTGGGACCGCAGCCGGGAGCGGAGCAGGAACCGAGAGCGCGAGCAGCCGG
AGGCGCGACCGGGACCGGTCCCGGAGCAGAGAGCGGGACCGAGACAAGGCCAGGGACAGGGAGCGGGGC
CGCGACCGCAAGGACCGGAGCAAGAGCAAGAGAGCGCTCGGGACCCGAAGCCCGAGGCCCTCGAGGGCC
TCCGACGCTGGCACCGCCTCGCAGGCC TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
    
```

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN:

NM\_033081

Insert Size:

6723 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_033081.2](#)

**RefSeq Size:** 8592 bp

**RefSeq ORF:** 6723 bp

**Locus ID:** 11083

**UniProt ID:** [Q9BTC0](#)

**Cytogenetics:** 20q13.33

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 243.9 kDa

**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]

Transcript Variant: This variant (4) represents the longest transcript and encodes the longest protein (isoform c). Variants 4 and 5 encode the same protein.