

Product datasheet for **MC228470**

Dido1 (NM_001291432) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dido1 (NM_001291432) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dido1
Synonyms:	6720461J16Rik; C130092D22Rik; D130048F08Rik; Datf; DATF-1; Datf1; di; dido; DIO; DIO-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228470 representing NM_001291432
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATGATAAAGGGCACCTGAGCAATGAGGAAGCACCCAAGGCTATCAAACCCACCAGTAAAGAGTTCA
 GGAAAACCTGGGGTTTTCGAAGAACCACGATTGCCAAACGTGAGGGTGCAGGAGACACGGAGGTGGACCC
 CAGTGAGCAGCAACCACAGCAGCATAACCTCTCCCTGCGCCGAGTGGACGGCAACCAAAACGTAAGT
 AGGGTAGAAGAGTTTCTTACCACGGTTCGGCGCCGAGGGAAAAAGAATGTGCCGGTGTCCCTGGAGGATT
 CCAGTGAGCCACATCTTCCACAGTCACTGATGTGGAGACAGTTCGAGGGGAGCGTTGAAAGCAGTTC
 TGATATCAGAAGTGGCCCTGTATCTGACTCCTTAGGGAAAGAACATCCTGCCTCTTCTGAAAAGGCAAAA
 GGAGGTGAAGAGGAAGAAGACACCTCTGACAGTGACAGTATGGCCTTACGTTGAAGGAACCTCAGAACC
 GCCTTCGGAGAAAGCGAGAGCAAGAACCTGTGGAGAGTCCCTGAGAGGCAGTCAAGATCGCCTGAGGAA
 GAAGCGCAGAGAGGAAGATTCTGCCGAACTGGGAGTGTCCAAATAGGCAGTCCGAGCAGGACAGACCT
 CTCTGTAAGCAGGAGCCTGAGGCTAGTCAGGGACCAAGTGTCCAGTCAGAGACAGATGACATAGAAAATC
 AGTTGGAAGGAAAGGCGACTCAGGGAAATACAGAGGAAAACCCAGGGAAGCGGGCAAAACCAAGCCTGA
 GTGTGAGGTTTACGACCCCAATGCCCTGTACTGCATCTGCCGCCAGCCTCACAACAACAGTTTATGATC
 TGCTGTGATCGGTGTGAGGAGTGGTCCATGGTACTGTGTGGGTATTTCTGAGGCCGAGGGCGGCTCC
 TGGAAAGGAACGGGAAGACTACATCTGCCCAAATGCACCATTTTGAAGTGCAGGATGAGACAAAACGG
 TAGCGCCACCGATGAGCAGGACTCTGGGTGCAGATCTGTGGTGTGATGGCACAGACTGCACAAGCATA
 GGGACAGTAGAGCAGAAGTCCGGAGAAGACCAGGCATAAAGGGTAGGATTGAGAAGGCAGCAAAACCCCA
 GCGGCAAGAAAAAACAAGATATCCAGCCTGTCGTAGAGGCTCCTGGTCTCTAAATGCATTGGCCC
 TGGGTGTTCCAGTGTAGCACAGCCTGACTCTGTATTGCAGTAATGACTGCATTTCTCAACACCGCAGCA
 GCTACCATGAGATTTCTAAGTTCAGGTAAGAACAACAAAAACCAAGGAAAAGGTCAAGACGAAGC
 CAGAAAAGTTCAGTCTTCCAAAATGCAGTGTTCAGGTGGGGATTAATCTCTTCTGTGCACAAGAGACT
 AGCGTCAGAGAAAAGGAAAACCCAGTGAAGAAAGTGTGCTGGCTTCCAGGAGTGAAGTCTGGGAAG
 GAGGCAGCCTGTGAGAGCAGCACACCCTCTGGCAAGTACCACAACATAATGCTGTGAAGCCAGAGA
 AGCCAGAGAAGCCACTGCACTCTGCCACCCTATTGAGTAAATGTACGTATCACCCAAAGGCTGGCTT
 CCCAGGCCCTCCATCATCTGGGTGGTGCCTGGGGCTGTCTAGGACCAGAGTCTGGGTGTTCTGGTG
 CTGATAGTAGCCAGCAGCTCACTGCCAGCCAGAAGCAGATACCAAGATGCCTCTGGACCCAGGTGTTCC
 TGCTAGCCTGTGGAGCCTCTCTGGGTGGTTCCTAAAGAGCTGTGTAGGCCTCATGTTGGAGGCAATTC
 TTATTTAGTTTTAGGCCTTGGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001291432
- Insert Size:** 1845 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001291432.1](#), [NP_001278361.1](#)

RefSeq Size: 4717 bp

RefSeq ORF: 1845 bp

Locus ID: 23856

UniProt ID: [Q8C9B9](#)

Cytogenetics: 2 H4

Gene Summary: This gene encodes a transcription factor involved in apoptosis. The encoded protein functions in cell cycle progression and plays a role in chromosomal stability. This protein regulates the self-renewal of embryonic stem cells. Disruption of this gene in mice causes symptoms similar to myelodysplastic/myeloproliferative diseases in humans. Mice lacking this gene show severely reduced fertility. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]

Transcript Variant: This variant (4) differs in the 5' UTR, lacks several exons and contains a 3' terminal exon that extends past a splice site used in variant 3. This results in a novel 3' coding region and 3' UTR compared to variant 3. The encoded isoform (Dido1, also known as isoform 1) is shorter and has a distinct C-terminus compared to isoform Dido3. Variants 1 and 4 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.