

Product datasheet for MR225049

Dido1 (NM_175551) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dido1 (NM_175551) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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
ORF Nucleotide Sequence:	>MR225049 representing NM_175551 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGGATCGCC**

ATGGATGATAAAGGGCACCTGAGCAATGAGGAAGCACCAAGGCTATCAAACCCACCGTAAAGGAGTTCA
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AGCCAGAGAAGCCCACTGCACTCTCGCCACCCTATTGAGTAAATCCATGAAGGATGACAGGAGGGTGGAGGACAGGACAATGGCAGCAGTTACCATCCCGAAGAAAGCACTTCCTTCAGCCTCTTTGGTGGGCAGACAGACTTCACCTAGGAATCTTGTTCCAAAGAAGCTTCCTCTACTCTAATATGGCAGGAGCCAAACCAGCCATTAAGAAACTGCCTTCAGGCTTCAAGGGTACCATCCCAAGAGGCCATGGCCCTCAGCCACCCTGTCAGGCACTTCTGCCAGGCAGGCAGGACCAACACCTATGACAGCTGCTTCAAAAAGTTGCCTGGCTCTGCTGCTGTGGTGGGAGTTACCAGGAAGCCAATGTCTGCCAATGTTCTGCTGCTTCTCAGCCCCAGGACGGCTTGCTCTGTAGGCCAGCTCCATCACAGCCCAATTCACAAAATTCGACAAAATATAAGGCGCTCTTGAAGAAGATTTTGTGAAAAGAGTCAATGACAGCGATGACTTAATAATGACAGAAAATGAAGTAGGAAAAATTGCCCTCCACATTGAGAAGGAGATGTTAACTTGTTCCAGGTTACTGATAATCGCTATAAGAGCAAATATCGCAGCATGTTCAACCTTAAGGATCCTAAGAATCAGGGGCTCTCCATCGTGTCTTCGAGAAGAAATCTCTTGGCAAACCTGTGAGAATGAAGCCTGAAGAACTTGATCTAAAGAGCTTTCTATGTGGACAGAGAAGCCCACAAAATCTGTGATAGAATCCAGGACTAAGTTGCTTAATGAAAGCAAGAAGAACAACACTACTAAACCAGAAACCTTCTGACATGGAAGATTCTCCACCGGTATCAGATTGAGAAGAACAACAAGAGTCAGTGCAGCCGCCCCGTGAGAAGAGCGCAGCACCTCTCCTGGACGTCTTCAGCAGCATGCTGAAGGACACCACAAGCCAGCACCGTGCCCATTTTTGATTTAACTGTAAAATCTGTACAGGTCAGGTTCCATCCTCGGAGGATGAACAGCTCCTAAGAAGCAAAAGCTTTCAGCTTCTTCTAAGAAGGAAGACTTAAAGCCAGGCATGACAGCTCTCCACCTAATGCAGTTCCTAACACTGCTGATGAAGGGATTGCAGACACGCTGCCTGAAAAATGCCTCTGAGCCAGACCCGGAGAGTACATCTAGTCTTAACCAGGAGAGAAAGTGTTCCTGAGTCTCCAGGCGATAGCCATCCTGAGCCCTCGTCTCTGGGTGGCCTTTCTCCCTCTTCTGCCTCTGGTGGGAGTGGGGTGGTCAACACAGTCACCATGTCTGGTCGAGACCCAGAACTGCCTGAGTGGGTGCTGCACAGTCACAGCCTCCATGGCAGCCCATCTGGACAACCTCCAGGCTTCAGAAACCAAACTGGACATGATAAAGCCTGCATTGACTTCTGCAGTGGTGCCCAAGTCCATACTGGCTAAGCCATCCTCTCTCCTGACCCGAGATACCTGTGAGTACCACATCACCAAGCAATTCAGAATCACGATCCCCACCAGAAGGAGATACAACCCTTTTTTGTCTCGACTCAACAGATTTGGAAAGGATTTAATAATGACAGAGTGTAGCAAAAATTTGTACTAAGGCATATGCTGCTCTGGGTGTTGGATTATCTCAGTGAAGTTTGGCAGACACCATCCACATCGGTGGAAGGATTGCTCCTAAAGACCGTGTGGGATTACGTTGGCAAACCTCAAGTCATCGGTGTCCAAGGAGCTCTGTCTGATCCGCTTCCACCCTGCCACTGAGGAGGAGGAGTTGCATACATTTCTCTACTCTATTTTAGCAGCCGTGGTCTGTTGGGTTGTAGCTAATAACAACAGGCATGTCAAGGACCTGTACCTGATTCCACTGAGTGTAGGACCCTGTGCCATCAAACCTTTGCCCTTTGAGGGCCAGGTCTTGAATCACACGTCCAAATAAATACTTGGGTAGTAATATGTCAGAAAGTGAACGTCCTTCAAGTGTGGCGAGTTAGACAAGACAGATGAGAAGCGGACTCGACTCCAACAGGAAGAAGTGAACCTTCAAGTCTATCCCAAAGTAACTGCAGCTTTGCCATCCGAGAAGAAGCCTCCCAAGTACAGTGTACACTCTATAGACACAGCTGCTACCAGCACCAGCCCCCTGGCTCTCCTCCCCACCTCCTCCTTCTGAAACCCCAAGTATTGAAAATACTGTATCCCTCAAGCCAGGGTCCACCAGCACTGTCAAGCGCCTACCACAGCAGCAATCACTACCACAGCTTCCCCTGTTACTGCTGCCACTTCCAAAACAGCCTCGCCCTGGAACACATCCTGCAGACTCTCTTTGGGAAAAAGAAATCATTGAGCCGTCTGGAAAAGAAATCTGTTGGGTACTCTATCTCCACATCAGGATTCGAAGGCCAAGGGGGAGGACACCATGTGACGAGCTCCTTGTTGGATCCAATTGTTCAACAGTTTGGTCAGTTCTCAAAGACAAGGCTCTGGAGGAGGAGGAGGAAGATGACAGGCCCTACGACCCTGAAGAAGAGTACAACCCTGATCGAGCATTCATACACTGCTCGCTGAGCCAGGGAGCCCTCATGATGTGCAGAGTGTGTCTGAGACAGCTGAGAGGGAGGAGGTGGCCTATGACCCAGAAGATGAGACCATCTAGAAGAAGCCAAAGTGACCATTGATGACTTGCCCAATCGCATGTGTATGAAAGTTAGCGCCACAGAAAGGCTGCCGACTTACCACCGATGCCTCCAGTGCTTCGTTGAGAGCAGCAGAAAATGTTAGAAGAGCTAAATAAACAGATTGAGGAGCAAAAAGGAGCAGCTGGAGGAGCAAGAAGAAGCTCTCCGACAGCAGAGGGTCTGTGGGTGTGCCATGGCACACTTTTCTGTGTCCGATGCATTGATGTACCACCTCCCAAGTCGCTTTGGGCAAGACAGAGCTGTTCTCTCAAGAACAGCAAGCCCCAGACCCAAGTCAGGGAGCCCGAACACCAACCACAACCTAGACTCAAGACAAAGTAGGGACCCAAGGCAGGCCAGGCGGCTCGCTGCAGAAAACACAGAGAATGAATCCCTTCTAGGGCCCCACAGGAAGCACACCTGGCCACAAGGCACCCTACCTGCAAGGGAGACTCCTGTGGGACTGCAGTAGTCCAGGGGCTGGGCTGGCAGCAGAAGCCAAGGAGTCAATGGCTGTTCCCTGGGCTCCAGGTGAAAACGCTGTGTTGAGACCTGAACATGACATCCAAAAATGTGAGCACCTGGTAACCCTGTCTCATTACCCTGGACACCAGCCACCTTCTACAGCTGGGGATGGCGCAGCCAGGCCAGCACCGCCCCGAGAGTGTGCTACCCACACCCCTAGCACCACTTTCCACCCAGCTTCCCTTTGCAACCTAAGGCCCAAAATTTTAGTTCTGGAAGCAGGGAGCCTTTCTCAGGGCCACATTTATGTCTCAGGAAACATCTCTGGCTCATCCCAATATGAGGACCCAGGGGTGCTCAGTCTGCTGGGAAGAATGACAGCCC

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Protein Sequence: >MR225049 representing NM_175551
 Red=Cloning site Green=Tags(s)

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 VGSTLSPHQDSKAKGEDTMSAAPLLDPIVQQFGQF SKDKALEEEEEEDDRPYDPEEEYNPDRAFHTLLAEP
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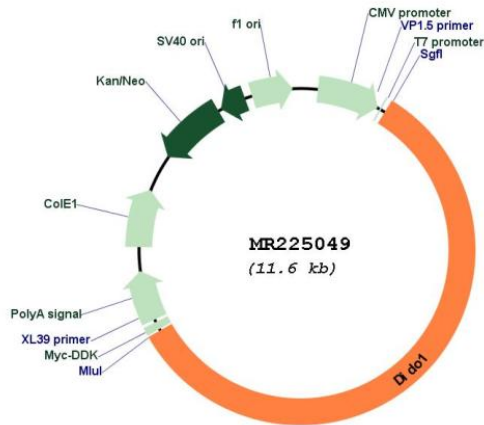
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN:

NM_175551

ORF Size:

6768 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_175551.4](#), [NP_780760.2](#)

RefSeq Size: 8473 bp

RefSeq ORF: 6771 bp

Locus ID: 23856

UniProt ID: [Q8C9B9](#)

Cytogenetics: 2 H4

MW: 247.6 kDa

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]