

Product datasheet for **MG223994**

Dido1 (NM_177852) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dido1 (NM_177852) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dido1
Synonyms:	6720461J16Rik; C130092D22Rik; D130048F08Rik; Datf; DATF-1; Datf1; di; dido; DIO; DIO-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223994 representing NM_177852 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGATAAAGGGCACCTGAGCAATGAGGAAGCACCCAAGGCTATCAAACCCACCAGTAAGGAGTTCA
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GAGGCAGCCTGTGAGAGCAGCACACCATCCTGGGCAAGTGACCACAACACTACAATGCTGTGAAGCCAGAGA
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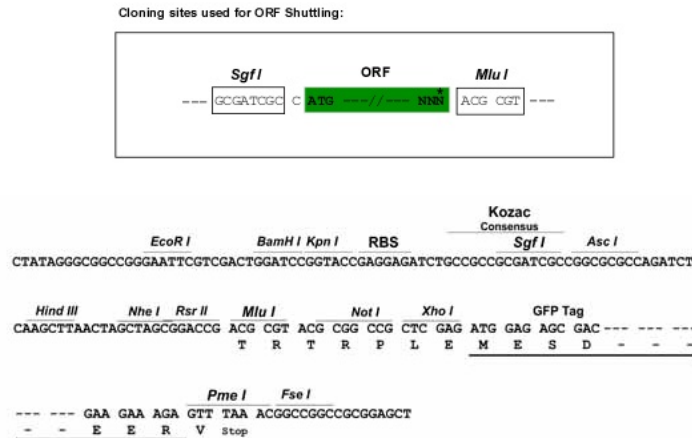
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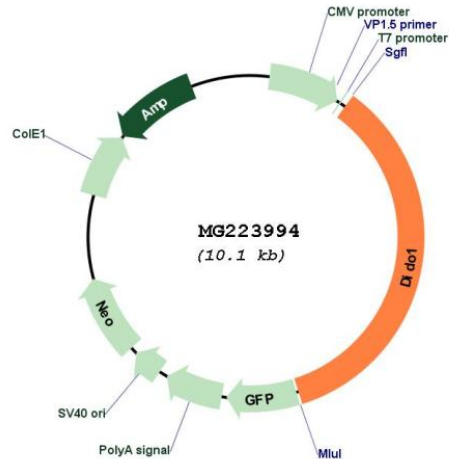
Protein Sequence: >MG223994 representing NM_177852
 Red=Cloning site Green=Tags(s)

MDDKGHL SNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDTEVDPSEQQPQQHNL SLRRSGRQPKRTE
 RVEEFL TTVRRRGKKNVPVSL EDSSEPT SSTVTDVETASEGSVESSEIRSGPVS DSLGKEHPASSEKAK
 GGEEEE DTSDSDS DGL TLKELQNRLRRKREQEPVERSLRGSQNRLRKKRREEDSAETGSVQIGSAEQDRP
 LCKQEPEASQGPVSQSE TDDIENQLE GKATQGNTEENPREAGKPKPECEVYDPNALYICRQPHNNRFMI
 CCDRCEEWFHGDCVGI SEARGRL LERNGEDYICPNCTILQVQDE TNGSATDEQDSGCRSVGADGTDCTSI
 GTVEQKSGEDQGIKGRIEKAANPSGKKLKI FQPVVEAPGAPKCI GPGCSSVAQPDSVYCSNDCILKHA A
 ATMRF LSSGKEQKTKPEKVKTKPEKFS LPKCSVQVGIKISSVHKRLASEKREN PVKVM LARSSETSGK
 EAACES TSPSWADHNYNAVKPEKPEKPTAL SPTLLSKSMKDDRRVEDRTMAAVTIPKKALPSASLVGRQ
 TSPRNL VPKKLPPYSNMAGAKPAIKKLPSGFKGTIPKRPWPSATLSGTSARQAGPTMTAASKKLPGSAA
 VVGVTRK PMSANVPAASPAPGRLGPVSPAPSQPN SQRQNI RRSLKEILWKR VNDSDDLIMTENEV G KIA
 LHIEKEMFNL FQVTDNRYKSKYRSIMFNLKDPKNQGLFHRV LREEISLAKLVRMKPEELVSKELSMWTEK
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 HRAHLFDL NCKICTGQVP SSEDEPAPKKQKL SASKKEDFKPRHDSPPNAV PNTADEGIADTLPENASE
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 AHLDNSQAS ETKLDMIKPALTS AVVPKSILAKPSSSPDPRYL SVPPSPSISESRSPPEGDTTLFLSRLNT
 IWKGF INMQSVAKFVTKAYPVSGCLDYL SEDLPDI IHIGGRIAPKTVWDYVYGK LKSSVSKELCLIRFHPA
 TEEEEVAYISLYS YFSSRGRFGVVANNRHRVKDLYLIPLSAKDPVPSKLLPFEGPGKHPVSGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
Cloning Scheme:



Plasmid Map:


ACCN: NM_177852

ORF Size: 3549 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_177852.4](#), [NP_808520.2](#)

RefSeq Size: 4906 bp

RefSeq ORF: 3552 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]