

## Product datasheet for **MR231331**

### Dag1 (NM\_001276481) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dag1 (NM_001276481) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dag1
Synonyms:	D9Wsu13; D9Wsu13e; DG; Dp71; Dp427
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR231331 representing NM\_001276481  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGTGGACAACTGGCTACTGCACCCCTCTGGGACAGACCTTTCTCCTCCTGTCTGTGGCTG  
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 AACAGGACTGTGGGAGAGTACACACCCCTGCGGGATGAGGATCCTAACGCACCTCCCTATCAGCCAC  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231331 representing NM\_001276481  
Red=Cloning site Green=Tags(s)

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MSVDNLLHPLWGQTFLLLLSVAVAQAHWPSEPSEAVRDWKNQLEASMHSVL SDFQEAVPTVVGIPDGTA
VGRSFRVSIPTDLIASSGEI IKVSAAGKEALPSWLHWDPHSHILEGLPLD TDKGVHYISVSAARLGANG
SHVPQTSSVFSIEVYPEDHNEPQSVRAASSDPGEVVP SACAAD E PVTVL TVILDADLTKMTPKQRIDLLN
RMQSFSEVELHNMKLVPVNNR LFDMSAFMAGPGNAKKVVENGALLSWKLGCSLNQNSVPDIRGVETPAR
EGAMSAQLGYPVVGWHIANKKPTLPKRLRRQIHATPTP VTAIGPPTTAIQEPPSRIVPTPTSPA IAPPTE
TMAPPVRDPVPGKPTVTIRTRGAI IQTP TLGPIQPTRVSEAGTTVPGQIRPTLTIPGYVEPTAVITPPTT
TTKKPRVSTPKPATPSTDSSTTTTRRPTKKPRTPRPVPRVTTKAPITRLETASPPTRIRTTTSGVPRGGE
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GLPDSSSHVGKHEYFMHATDKGGLSAVDAFEIHVHKRPQGD KAPARFKARLAGDPAPVVNDIHKKIALVKK
LAFAFGDRNCSSITLQNI TRGSIVVEWNTN TLPLEPCKEQI IGLSRRIADENKPRPAF SNALEPDFKA
LSIAVTGSGSCRHLQFIPVAPSPGSSAAPATEV PDRDPEKSS EDDVYLHTVIPAVVVAAILLIAGI IAM
ICYRKKRKGKLTLEDQATFIKKGVPIIFADELDDSKPPPSSMPLILQEEKAPLPPPEYPNQSM PETTPL
NQDTVGEYTPLRDEDPNAPPYQPPPPFTAPMEGK GSRPKNMTPYRSPPPYVPP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

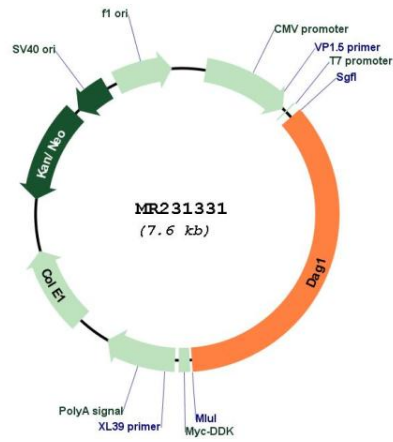
**Cloning Scheme:**



**ACCN:** NM\_001276481

<b>ORF Size:</b>	2679 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001276481.1</a> , <a href="#">NP_001263410.1</a>
<b>RefSeq Size:</b>	5534 bp
<b>RefSeq ORF:</b>	2682 bp
<b>Locus ID:</b>	13138
<b>UniProt ID:</b>	<a href="#">Q62165</a>
<b>Cytogenetics:</b>	9 59.08 cM
<b>MW:</b>	96.9 kDa
<b>Gene Summary:</b>	This gene encodes dystroglycan, a central component of dystrophin-glycoprotein complex that links the extracellular matrix and the cytoskeleton in the skeletal muscle. The encoded preproprotein undergoes O- and N-glycosylation, and proteolytic processing to generate alpha and beta subunits. A complete lack of the encoded protein in mice results in embryonic lethality due to the disorganization of Reichert's membrane. Chimeric mice deficient in the encoded protein overcome embryonic lethality but develop a progressive muscular dystrophy. Alternative splicing results in multiple transcript variants, all encoding the same protein. [provided by RefSeq, Nov 2015]

Product images:



Circular map for MR231331