

## Product datasheet for **MR231332**

### Dag1 (NM\_001276482) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | Dag1 (NM_001276482) 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:

>MR231332 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGTGGACAACTGGCTACTGCACCCCTCTGGGACAGACCTTTCTCCTCCTGTCTGTGGCTG  
 TGGCTCAGGCCCACTGGCCAGTGAACCTCAGAGGCTGTGAGGGACTGGAAGAACCAGCTTGAGGCGTC  
 CATGCACTCAGTTCTCTCCGACTTCCAGGAGGCTGTTCCACCGTGGTTGGCATTCCAGACGGTACGGCT  
 GTTGTGCGGGCGCTCATTTGAGTGAACATTCCAACGGATTTAATTGCCTCCAGTGGGAGATCATCAAGG  
 TGTCTGCAGCAGGAAGGAGGCCCTTACCGTCTTGGCTACTGGACCCACACAGTCATATTTGGAAGG  
 CCTTCTCTTGACACTGATAAAGGTGTGCATTACATCTCAGTGAAGTGTGCACGCCTGGGAGCCAATGGA  
 AGCCACGTCACCCAGACTTCCAGTGTGTTCTATCGAGGTCTACCCTGAAGACCACAATGAGCCACAGT  
 CTGTACGGGCAGCCTCATCAGACCCTGGTGAAGTGTGCCATCTGCCTGTGCTGTGATGAGCCAGTGAC  
 TGTCTTACAGTGATTCTGGATGCTGACCTCACCAAGATGACCCAAAGCAAAGGATCGATCTGTTGAAC  
 AGAATGCAGAGCTTCTCAGAAGTAGAATTCAACATGAAGTTGGTGCCTGTAGTGAATAATAGACTAT  
 TTGACATGTCGGCCTTATGGCTGGCCAGGAAATGCAAAGAAAGTGGTAGAATGGGGCTCTCCTGTG  
 CTGAAACTAGGCTGCTCCTTGAACCAGAATAGCGTCCCTGACATCCGTGGTGTAGAAACCCCTGTAGG  
 GAGGGTGTATGTCTGCCAACTTGTTATCCTGTGGTGGGTTGGCACATTGCCAATAAGAAGCCCACTC  
 TCCCAACAGACTCCGGAGGCAGATCCACGCCACACCTACACCTGTTACTGCCATTGGACCCCAACAC  
 GGCCATTACAGGAGCCACCATCGCGGATAGTGCCTACGCCTACATCTCCAGCCATTGCACCTCCAACAG  
 ACCATGGCTCCTCTGTGAGGGATCCTGTTCCAGGAAGCCACGGTACCATTCCGACGCGAGGTGCCA  
 TTATTCAGACCCCAACTCTGGCCCTATCCAGCCTACTCGGGTGTGAGAAGCTGGTACCAGGTTCTCTGG  
 CCAGATTCGCCCAACACTGACAATTCCTGGCTATGTAGAGCCACAGCCGTTATTACTCCTCCAACAACT  
 ACCACAAGAAGCCACGAGTGTCCACGCCAAAGCCAGCAACGCCTTCAACTGATTCGTCAACTACCACA  
 CTGCGAGGCCAACCAAAAAACCACGGACACCCCGACCAGTGCCTCGAGTACCACCAAGCACCCATCAC  
 CAGGTTGGAGACAGTTCACCCACTCGAATCCGTAACCACAGTGGAGTGCCTGGTGGAACTATTTTGAAG  
 CTAACCAGCGGCAGAGCTCAAGAATCACATTGACAGGGTAGATGCCTGGTGGAACTATTTTGAAG  
 TAAAGATTCCATCAGACACCTTCTATGACAATGAGGATACCACTACCGACAAGCTCAAGTGAACCTGAA  
 GCTTCGAGAGCAGCAGTTAGTAGGTGAGAAATCGTGGGTTCAAGTTAACAGCAACAGCCAGCTCATGAT  
 GGCTGCCTGACAGCAGCCATGTGGGAAAACATGAGTATTTTATGCATGCCACAGACAAAGGGGCTCT  
 CCGCTGTGGATGCCTTCGAGATCCATGTTCAAGCGCCACAAGGGGACAAGGCTCCTGCACGGTTCAA  
 GGCCAGGCTTGCAGGGATCCAGCACCGGTGGTGAATGACATTCACAAGAAAATTGCTTTGGTAAAGAAG  
 CTAGCTTTTGGTGGGATCGAACTGCAGCTCCATCACCTTCCAGAACATCACTCGGGGCTCTATCG  
 TGGTGGAAATGGACCAACAACACTCTGCCCTGGAGCCCTGCCCAAGGAGCAGATCATAGGGCTGAGCCG  
 CAGGATTGCTGATGAAAATGGGAAGCCTCGTCTGCCTTCTCCAATGCTCTGGAGCCTGACTTTAAGGCT  
 CTGAGTATTGCTGTGACGGGCTCTGGCAGTTGTGCGCACCTCCAGTTTATCCCTGTGGCACCACCTCTC  
 CTGGAAGCTCAGCTGCACAGCCACAGAGGTTCCAGACAGGACCCCGAGAAGAGCAGTGAAGGACGATG  
 TTACCTGCACACCGTTATCCAGCCGTGGTGGTGGCGCCATCCTGCTCATTGCTGGAATCATTGCTATG  
 ATCTGCTATCGCAAGAAGAGGAAGGGCAAGCTGACCCCTTGAGGACCAGGCCACCTTTATTAAGAAGGGG  
 TGCTATCATCTTTGCGGATGAGCTGGATGACTCTAAGCCCCGCCCTTCCAGCATGCCGCTCATCTT  
 GCAGGAAGAGAAGGCTCCCTCCACCTCTGAGTACCCCAACCAGAGTATGCCGAGACCACTCCTCTG  
 AACAGGACTGTGGGAGAGTACACACCCCTGCGGGATGAGGATCCTAACGCACCTCCCTATCAGCCAC  
 CCCCACCTTACGGCTCCCATGGAGGGCAAGGCTCCCGTCCCAAGAACATGACCCCATACCGATCACC  
 CCCTCCGATGTTCCCTT

**ACCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231332 protein sequence  
 Red=Cloning site Green=Tags(s)

MSVDNLLHPLWGQTFLLLLSVAVAQAHWPSEPSEAVRDWKNQLEASMHSVL SDFQEAVPTVVGIPDGTA  
 VVGRSFRVSIPTDLIASSGEI IKVSAAGKEALPSWLHWDPHSHILEGLPLD TDKGVHYISVSAARLGANG  
 SHVPQTSSVFSIEVYPEDHNEPQSVRAASSDPGEVVP SACAAD EPTVL TVILDADLTKMTPKQRIDLLN  
 RMQSFSEVELHNMKLPVVNNR LFDMSAFMAGP GNAKKV VENGALLSWKLGCSLNQNSVPDIRGVETPAR  
 EGAMSAQLGYPVVGWHIANKKPTLPKRLRRQIHATPTPVTAIGPPTTAIQEPPSRIVPTPTSPAIA PPTTE  
 TMAPPVRDPVPGKPTVTIRTRGAI IQTPTLGP IQPTRVSEAGTTVPGQIRPTLTIPGYVEPTAVITPPTT  
 TTKKPRVSTPKPATPSTDSSTTTTRRPTKKPRTPRPVPRVTTKAPITRLETASPPTRIRTTTSGVPRGGE  
 PNQRPELKNHIDRVD AWGTYFEVKIPSDTFYDNEDTTT DKLKL TLKLR EQLVGEKSWVQFNSNSQLMY  
 GLPDSSSHVGKHEYFMHATDKGGLSAVD AFEIHVHKRPQGD KAPARFKARLAGDPAPV VNDIHKKIALVKK  
 LAFAFGDRNCSSITLQNI TRGSIVVEWNTN LPLEPCKEQI IGLSRRIADENKPRPAF SNALEPDFKA  
 LSI AVTGS GSCRHLQFIPVAPSPGSSAAPATEV PDRDPEKSS EDDVYLHTVIPAVVVAAILLIAGI IAM  
 ICYRKKRKGKLTLEDQATFIKKGVP IIFADELDDSKPPPSSMPLILQEEKAPLPPPEYPNQSM PETTPL  
 NQDTVGEYTPLRDEDPNAPPYQPPPPFTAPMEGK GSRPKNMTPYRSPPPYVPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

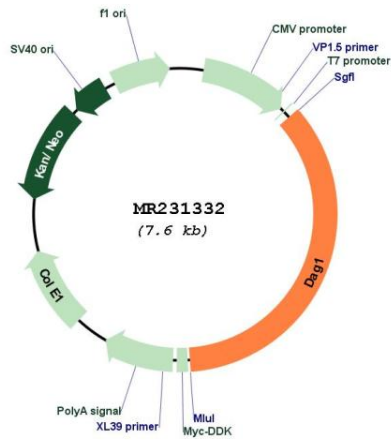
Cloning Scheme:



ACCN: NM\_001276482

|                               |  |
|-------------------------------|--|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.   |
| <b>RefSeq:</b>                | <a href="#">NM_001276482.1</a> , <a href="#">NP_001263411.1</a>  |
| <b>RefSeq Size:</b>           | 5447 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 MR231332