

Product datasheet for **MR231334**

Dag1 (NM_001276486) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dag1 (NM_001276486) 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:

>MR231334 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGTGGACAACTGGCTACTGCACCCCTCTGGGACAGACCTTTCTCCTCCTGTCTGTGGCTG
 TGGCTCAGGCCCACTGGCCCACTGAACCCCTCAGAGGCTGTGAGGGACTGGAAGAACCAGCTTGAGGCGTC
 CATGCACTCAGTTCTCTCCGACTTCCAGGAGGCTGTTCCACCCTGGTTGGCATTCCAGACGGTACGGCT
 GTTGTGCGGGCGCTCATTTGAGTGAGCATTCCAACGGATTTAATTGCCTCCAGTGGGAGATCATCAAGG
 TGTCTGCAGCAGGAAGGAGGCCCTTACCGTCTTGGCTACTGGACCCACACAGTCATATTTGGAAGG
 CCTTCTCTTGACACTGATAAAGGTGTGCATTACATCTCAGTGAGTGTGCACGCCTGGGAGCCAATGGA
 AGCCACGTCACCCAGACTTCCAGTGTGTTCTATCGAGGTCTACCCTGAAGACCACAATGAGCCACAGT
 CTGTACGGGCAGCCTCATCAGACCCTGGTGGTGTGAGTGTGCCATCTGCCTGTGCTGTGATGAGCCAGTGC
 TGTCTTACAGTGATTCTGGATGCTGACCTCACCAAGATGACCCAAAGCAAAGGATCGATCTGTTGAAC
 AGAATGCAGAGCTTCTCAGAAGTAGAATTCACAACATGAAGTTGGTGCCTGTAGTGAATAATAGACTAT
 TTGACATGTCGGCCTTATGGCTGGCCAGGAAATGCAAAGAAAGTGGTAGAATGGGGCTCTCCTGTG
 CTGAAACTAGGCTGCTCCTTGAACCAGAATAGCGTCCCTGACATCCGTGGTGTAGAAACCCCTGTAGG
 GAGGGTGTATGTCTGCCCAACTTGGTTATCCTGTGGTGGGTGGCACATTGCCAATAAGAAGCCCACTC
 TCCCAACAGACTCCGGAGGCAGATCCACGCCACACCTACACCTGTTACTGCCATTGGACCCCAACCCAC
 GGCCATTCAGGAGCCACCATCGCGGATAGTGCCTACGCCATCTCCAGCCATTGCACCTCCAACAGAG
 ACCATGGCTCCTCCTGTGAGGGATCCTGTTCCAGGAAGCCACGGTACCATTCCGACGCGAGGTGCCA
 TTATTCAGACCCCAACTCTGGGCCCTATCCAGCCTACTCGGGTGTGAGAAGCTGGTACCAGGTTCTCTGG
 CCAGATTCGCCCAACACTGACAATTCCTGGCTATGTAGAGCCACAGCCGTTATTACTCCTCCAACAACT
 ACCACAAGAAGCCACGAGTGTCCACGCCAAAGCCAGCAACGCCTTCAACTGATTCGTCAACTACCACAA
 CTCGGAGGCCAACCAAAAAACCACGGACACCCCGACCAGTGCCTCGAGTCAACCAAGCACCCATCAC
 CAGGTTGGAGACAGTTCACCCACTCGAATCCGTAACCACAGTGGAGTGCCTGGTGGGAACTATTTTGAAG
 CTAACCAGCGGCAGAGCTCAAGAATCACATTGACAGGGTAGATGCCTGGTGGGAACTATTTTGAAG
 TAAAGATCCATCAGACACCTTCTATGACAATGAGGATACCACTACCGACAAGCTCAAGCTGACCCTGAA
 GCTTCGAGAGCAGCAGTTAGTAGGTGAGAAATCGTGGGTTCAAGTTAACAGCAACAGCCAGCTCATGTAT
 GGCTGCCTGACAGCAGCCATGTGGGAAAACATGAGTATTTTATGCATGCCACAGACAAAGGGGCTCT
 CGCTGTGGATGCCTTCGAGATCCATGTTCAAGCGCCACAAGGGGACAAGGCTCCTGCACGGTTCAA
 GGCCAGGCTTGCAGGGATCCAGCACCGGTGGTGAATGACATTCACAAGAAAATTGCTTTGGTAAAGAAG
 CTAGCTTTTGGTGGGATCGAACTGCAGCTCCATCACCCCTCAGAACATCACTCGGGGCTCTATCG
 TGGTGGAAATGGACCAACAACACTCTGCCCTGGAGCCCTGCCCAAGGAGCAGATCATAGGGCTGAGCCG
 CAGGATTGCTGATGAAAATGGGAAGCCTCGTCTGCCTTCTCCAATGCTCTGGAGCTGACTTTAAGGCT
 CTGAGTATTGCTGTGACGGGCTCTGGCAGTTGTGCGCACCTCCAGTTTATCCCTGTGGCACCACCCCTCTC
 CTGGAAGCTCAGCTGCACAGCCACAGAGGTTCCAGACAGGACCCCGAGAAGAGCAGTGAAGGACGATG
 TTACCTGCACACCGTTATCCAGCCGTGGTGGTGGCGCCATCCTGCTCATTGCTGGAATCATTGCTATG
 ATCTGCTATCGCAAGAAGAGGAAGGGCAAGCTGACCCCTTGAGGACCAGGCCACCTTTATTAAGAAGGGGG
 TGCTATCATCTTTGCGGATGAGCTGGATGACTCTAAGCCCCGCTCTTCCAGCATGCCGCTCATCTT
 GCAGGAAGAGAAGGCTCCCTCCACCTCCTGAGTACCCCAACCAGAGTATGCCGAGACCACTCCTCTG
 AACAGGACACTGTGGGAGAGTACACACCCCTGCGGGATGAGGATCCTAACGCACCTCCCTATCAGCCAC
 CCCCACCTTACGGCTCCCATGGAGGGCAAGGCTCCCGTCCCAAGAACATGACCCCATACCGATCACC
 CCCTCCGATGTTCCCTT

ACCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231334 protein sequence
 Red=Cloning site Green=Tags(s)

MSVDNLLHPLWGQTFLLLLSVAVAQAHWPSEPSEAVRDWKNQLEASMHSVL SDFQEAVPTVVGIPDGTA
 VVGRSFRVSIPTDLIASSGEI IKVSAAGKEALPSWLHWDPHSHILEGLPLDLDKGVHYISVSAARLGANG
 SHVPTSSVFSIEVYPEDHNEPQSVRAASDDPGEVVP SACAADPEVTVLTVILDADLTKMTPKQRIDLLN
 RMQSFSEVELHNMKLVPVNNRFLDMSAFMAGPNAKKV VENGALLSWKLGCSLNQNSVPDIRGVETPAR
 EGAMSAQLGYPVVGWHIANKKPLPKRLRRQIHATPTP VTAIGPPTTAIQEPPSRIVPTPTSPAIAAPTE
 TMAPPVRDPVPGKPTVTIRTRGAI IQTPTLGPIQPTRV SEAGTTVPGQIRPTLTIPGYVEPTAVITPPTT
 TTKKPRVSTPKPATPSTDSSTTTTRRPTKKPRTPRPV PRVTTKAPITRLETASPPTRIRTTTSGVPRGGE
 PNQRPELKNHIDRVDAWVGTYFEVKIPSDTFYDNED TTTDKLKLTLKLRQQLVGEKSWVQFNSNSQLMY
 GLPDSSHVGKHEYFMHATDKGGLSAVDAFEIHVHKRPQ GDKAPARFKARLAGDPAPVVDIHKKIALVKK
 LAFAFGDRNCSSITLQNI TRGSIVVEWNTNLTLPLEPC KEQIIGLSRRIADENKPRPAF SNALEPDFKA
 LSI AVTGS GSCRHLQFIPVAPSPGSSAAPATEV PDRDPEKSS EDDVYLHTVIPAVVVAAILLIAGI IAM
 ICYRKKRKGKLTLEDQATFIKKGVP IIFADELDDSKPPP SSSMPLILQEEKAPLPPPEYPNQSM PETTPL
 NQDTVGEYTPLRDEDPNAPPYQPPPPFTAPMEGK GSRPKNMTPYRSPPPYVPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

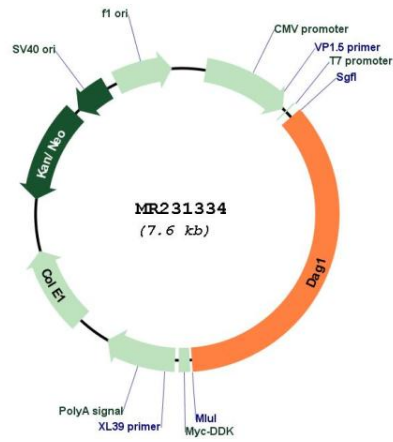
Cloning Scheme:



ACCN: NM_001276486

ORF Size:	2679 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:	<ol style="list-style-type: none">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_001276486.1 , NP_001263415.1
RefSeq Size:	5435 bp
RefSeq ORF:	2682 bp
Locus ID:	13138
UniProt ID:	Q62165
Cytogenetics:	9 59.08 cM
MW:	96.9 kDa
Gene Summary:	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 MR231334