OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR211082

Dag1 (NM_010017) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dag1 (NM_010017) 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)

View online »

ORF Nucleotide Sequence:

>MR211082 representing NM_010017
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGTGGACAACTGGCTACTGCACCCCCTCTGGGGACAGACCTTTCTCCTCCTCCTGTCTGTGGCTG
TGGCTCAGGCCCACTGGCCCAGTGAACCCTCAGAGGCTGTGAGGGACTGGAAGAACCAGCTTGAGGCGTC
CATGCACTCAGTTCTCTCCGACTTCCAGGAGGCTGTTCCCACCGTGGTTGGCATTCCAGACGGTACGGCT
GTTGTCGGGCGCTCATTTCGAGTGAGCATTCCAACGGATTTAATTGCCTCCAGTGGGGAGATCATCAAGG
TGTCTGCAGCAGGGAAGGAGGCCTTACCGTCTTGGCTACACTGGGACCCACACAGTCATATTTTGGAAGG
CCTTCCTCTTGACACTGATAAAGGTGTGCATTACATCTCAGTGAGTGCTGCACGCCTGGGAGCCAATGGA
AGCCACGTCCCCCAGACTTCCAGTGTGTTCTCTATCGAGGTCTACCCTGAAGACCACAATGAGCCACAGT
CTGTACGGGCAGCCTCATCAGACCCTGGTGAGGTAGTGCCATCTGCCTGTGCTGCTGATGAGCCAGTGAC
TGTCCTTACAGTGATTCTGGATGCTGACCTCACCAAGATGACCCCAAAGCAAAGGATCGATCTGTTGAAC
AGAATGCAGAGCTTCTCAGAAGTAGAACTTCACAACATGAAGTTGGTGCCTGTAGTGAATAATAGACTAT
TTGACATGTCGGCCTTCATGGCTGGCCCAGGAAATGCAAAGAAAGTGGTAGAGAATGGGGCTCTCCTGTC
CTGGAAACTAGGCTGCTCCTTGAACCAGAATAGCGTCCCTGACATCCGTGGTGTAGAAACCCCTGCTAGG
GAGGGTGCTATGTCTGCCCAACTTGGTTATCCTGTGGTGGGTTGGCACATTGCCAATAAGAAGCCCACTC
TCCCCAAACGACTCCGGAGGCAGATCCACGCCACACCTACACCTGTTACTGCCATTGGACCCCCAACCAC
GGCCATTCAGGAGCCACCATCGCGGATAGTGCCTACGCCTACATCTCCAGCCATTGCACCTCCAACAGAG
ACCATGGCTCCTCCTGTCAGGGATCCTGTTCCAGGGAAGCCCACGGTCACCATTCGGACGCGAGGTGCCA
TTATTCAGACCCCAACTCTGGGCCCTATCCAGCCTACTCGGGTGTCAGAAGCTGGTACCACGGTTCCTGG
CCAGATTCGCCCAACACTGACAATTCCTGGCTATGTAGAGCCCACAGCCGTTATTACTCCTCCAACAACT
ACCACAAAGAAGCCACGAGTGTCCACGCCAAAGCCAGCAACGCCTTCAACTGATTCGTCAACTACCACAA
CTCGGAGGCCAACCAAAAAACCACGGACACCCCGACCAGTGCCCCGAGTCACCACCAAAGCACCCATCAC
CAGGTTGGAGACAGCTTCCCCACCCACTCGAATCCGTACTACCACCAGTGGAGTGCCCCGTGGGGGAGAA
CCTAACCAGCGGCCAGAGCTCAAGAATCACATTGACAGGGTAGATGCCTGGGTGGGAACCTATTTTGAGG
TAAAGATTCCATCAGACACCTTCTATGACAATGAGGATACCACTACCGACAAGCTCAAGCTGACCCTGAA
GCTTCGAGAGCAGCAGTTAGTAGGTGAGAAATCGTGGGTTCAGTTTAACAGCAACAGCCAGCTCATGTAT
GGCCTGCCTGACAGCAGCCATGTGGGAAAACATGAGTATTTTATGCATGCCACAGACAAAGGGGGCCTCT
CCGCTGTGGATGCCTTCGAGATCCATGTTCACAAGCGCCCACAAGGGGACAAGGCTCCTGCACGGTTCAA
GGCCAGGCTTGCAGGGGATCCAGCACCGGTGGTGAATGACATTCACAAGAAAATTGCTTTGGTAAAGAAG
CTAGCTTTTGCTTTTGGGGATCGAAACTGCAGCTCCATCACCCTTCAGAACATCACTCGGGGCTCTATCG
TGGTGGAATGGACCAACAACACTCTGCCCCTGGAGCCCTGCCCCAAGGAGCAGATCATAGGGCTGAGCCG
CAGGATTGCTGATGAAAATGGGAAGCCTCGTCCTGCCTTCTCCAATGCTCTGGAGCCTGACTTTAAGGCT
CTGAGTATTGCTGTGACGGGCTCTGGCAGTTGTCGGCACCTCCAGTTTATCCCTGTGGCACCACCCTCTC
CTGGAAGCTCAGCTGCACCAGCCACAGAGGTTCCAGACAGGGACCCCGAGAAGAGCAGTGAGGACGATGT
TTACCTGCACACCGTTATCCCAGCCGTGGTGGTCGCGGCCATCCTGCTCATTGCTGGAATCATTGCTATG
ATCTGCTATCGCAAGAAGAGGAAGGGCAAGCTGACCCTTGAGGACCAGGCCACCTTTATTAAGAAGGGGG
TGCCTATCATCTTTGCGGATGAGCTGGATGACTCTAAGCCCCCGCCCTCTTCCAGCATGCCGCTCATCTT
GCAGGAAGAGAAGGCTCCCCTCCCACCTCCTGAGTACCCCAACCAGAGTATGCCCGAGACCACTCCTCTG
AACCAGGACACTGTGGGAGAGTACACACCCCTGCGGGATGAGGATCCTAACGCACCTCCCTATCAGCCAC
CCCCACCCTTCACGGCTCCCATGGAGGGCAAGGGCTCCCGTCCCAAGAACATGACCCCATACCGATCACC
CCCTCCGTATGTTCCCCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211082 representing NM_010017
Red=Cloning site Green=Tags(s)

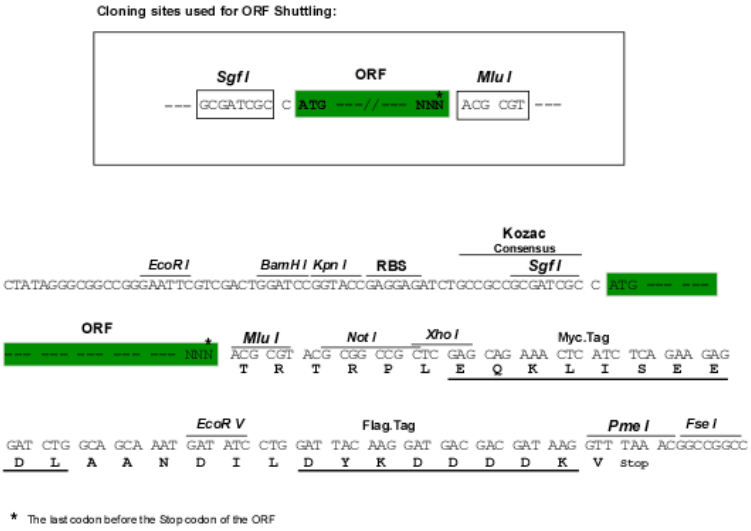
MSVDNWLLHPLWGQTFLLLLSVAVAQAHWPSEPSEAVRDWKNQLEASMHSVLSDFQEAVPTVVGIPDGTA
VVGRSFRVSIPTDLIASSGEIIKVSAAGKEALPSWLHWDPHSHILEGLPLDTDKGVHYISVSAARLGANG
SHVPQTSSVFSIEVYPEDHNEPQSVRAASSDPGEVVPSACAADEPVTVLTVILDADLTKMTPKQRIDLLN
RMQSFSEVELHNMKLVPVVNNRLFDMSAFMAGPGNAKKVVENGALLSWKLGCSLNQNSVPDIRGVETPAR
EGAMSAQLGYPVVGWHIANKKPTLPKRLRRQIHATPTPVTAIGPPTTAIQEPPSRIVPTPTSPAIAPPTE
TMAPPVRDPVPGKPTVTIRTRGAIIQTPTLGPIQPTRVSEAGTTVPGQIRPTLTIPGYVEPTAVITPPTT
TTKKPRVSTPKPATPSTDSSTTTTRRPTKKPRTPRPVPRVTTKAPITRLETASPPTRIRTTTSGVPRGGE
PNQRPELKNHIDRVDAWVGTYFEVKIPSDTFYDNEDTTTDKLKLTLKLREQQLVGEKSWVQFNSNSQLMY
GLPDSSHVGKHEYFMHATDKGGLSAVDAFEIHVHKRPQGDKAPARFKARLAGDPAPVVNDIHKKIALVKK
LAFAFGDRNCSSITLQNITRGSIVVEWTNNTLPLEPCPKEQIIGLSRRIADENGKPRPAFSNALEPDFKA
LSIAVTGSGSCRHLQFIPVAPPSPGSSAAPATEVPDRDPEKSSEDDVYLHTVIPAVVVAAILLIAGIIAM
ICYRKKRKGKLTLEDQATFIKKGVPIIFADELDDSKPPPSSSMPLILQEEKAPLPPPEYPNQSMPETTPL
NQDTVGEYTPLRDEDPNAPPYQPPPPFTAPMEGKGSRPKNMTPYRSPPPYVPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9006_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

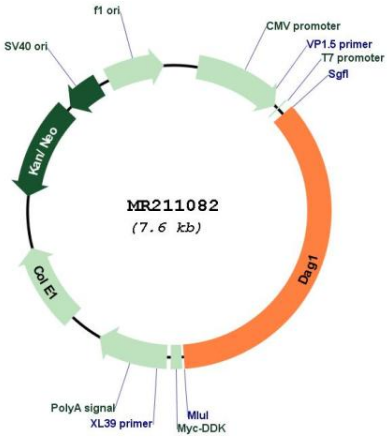


ACCN: NM_010017

ORF Size:	2679 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_010017.4, NP_034147.1
RefSeq Size:	5591 bp
RefSeq ORF:	2682 bp
Locus ID:	13138
UniProt ID:	Q62165
Cytogenetics:	9 59.08 cM
MW:	97.4 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 MR211082