

## Product datasheet for **MG211082**

### Dag1 (NM\_010017) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dag1 (NM_010017) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dag1
Synonyms:	D9Wsu13; D9Wsu13e; DG; Dp71; Dp427
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG211082 representing NM\_010017  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTCTGTGGACAACTGGCTACTGCACCCCTCTGGGACAGACCTTTCTCCTCCTGTCTGTGGCTG  
 TGGCTCAGGCCCACTGGCCAGTGAACCTCAGAGGCTGTGAGGGACTGGAAGAACCAGCTTGAGGCGTC  
 CATGCACTCAGTTCTCTCCGACTTCCAGGAGGCTGTTCCACCCTGGTTGGCATTCCAGACGGTACGGCT  
 GTTGTGCGGGCGCTCATTTGAGTGAACATTCCAACGGATTTAATTGCCTCCAGTGGGAGATCATCAAGG  
 TGTCTGCAGCAGGAAGGAGGCCCTTACCGTCTTGGCTACTGGGACCCACACAGTCATATTTGGAAGG  
 CCTTCTCTTGACACTGATAAAGGTGTGCATTACATCTCAGTGAAGTGTGCACGCCTGGGAGCCAATGGA  
 AGCCACGTCACCCAGACTTCCAGTGTGTCTCTATCGAGGTCTACCCTGAAGACCACAATGAGCCACAGT  
 CTGTACGGGCAGCCTCATCAGACCCTGGTGAAGTGTGCCATCTGCCTGTGCTGATGAGCCAGTGC  
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 CTGAAACTAGGCTGCTCCTTGAACCAGAATAGCGTCCCTGACATCCGTGGTGTAGAAACCCCTGTAGG  
 GAGGGTGTATGTCTGCCCAACTTGGTTATCCTGTGGTGGGTGGCACATTGCCAATAAGAAGCCCACTC  
 TCCCAACAGACTCCGGAGGCAGATCCACGCCACACCTACACCTGTTACTGCCATTGGACCCCAACCCAC  
 GGCCATTACAGGAGCCACCATCGCGGATAGTGCCTACGCCTACATCTCCAGCCATTGCACCTCCAACAGAG  
 ACCATTGGCTCCTCTGTGAGGGATCCTGTTCCAGGAAGCCACGGTACCATTCCGACGCGAGGTGCCA  
 TTATTCAGACCCCAACTCTGGCCCTATCCAGCCTACTCGGGTGTGAGAAGCTGGTACCAGGTTCTCTGG  
 CCAGATTCGCCCAACACTGACAATTCTGGCTATGTAGAGCCACAGCCGTTATTACTCCTCCAACAACCT  
 ACCACAAGAAGCCACGAGTGTCCACGCCAAAGCCAGCAACGCCTTCAACTGATTCGTCAACTACCACA  
 CTCGGAGGCCAACCAAAAAACCACGGACACCCCGACCAGTGCCTCGAGTACCACCAAGCACCCATCAC  
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 CCTAACAGCGGCAGAGCTCAAGAATCACATTGACAGGGTAGATGCCTGGTGGGAACCTATTTTGAAG  
 TAAAGATTCCATCAGACACCTTCTATGACAATGAGGATACCACTACCGACAAGCTCAAGCTGACCCTGAA  
 GCTTCGAGAGCAGCAGTTAGTAGGTGAGAAATCGTGGGTTCAAGTTAACAGCAACAGCCAGCTCATGTAT  
 GGCTGCCTGACAGCAGCCATGTGGGAAAACATGAGTATTTTATGCATGCCACAGACAAAGGGGCCTCT  
 CGCTGTGGATGCCTTCGAGATCCATGTTCAAGCGCCACAAGGGGACAAGGCTCCTGCACGGTTCAA  
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 ATCTGCTATCGCAAGAAGAGGAAGGGCAAGCTGACCCCTTGAGGACCAGGCCACCTTTATTAAGAAGGGGG  
 TGCTATCATCTTTGCGGATGAGCTGGATGACTCTAAGCCCCCGCCCTTCCAGCATGCCGCTCATCTT  
 GCAGGAAGAGAAGGCTCCCTCCACCTCTGAGTACCCCAACCAGAGTATGCCGAGACCACTCCTCTG  
 AACAGGACTGTGGGAGAGTACACACCCCTGCGGGATGAGGATCCTAACGCACCTCCCTATCAGCCAC  
 CCCCACCTTACGGCTCCCATGGAGGGCAAGGCTCCCGTCCCAAGAACATGACCCCATACCGATCACC  
 CCTCCGATGTTCCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211082 representing NM\_010017  
 Red=Cloning site Green=Tags(s)

MSVDNLLHPLWGQTFLLLLSVAVAQAHWPSEPSEAVRDWKNQLEASMHSVL SDFQEAVPTVVGIPDGTAVVGRSFRVSIPTDLIASSGEI IKVSAAGKEALPSWLHWDPHSHILEGLPLDTDKGVHYISVSAARLGANGSHVPQTSSVFSIEVYPEDHNEPQSVRAASSDPGEVVP SACAADPEVTVLTVILDADLTKMTPKQRIDLLNRMQSFSEVELHNMKLVPVNNR LFDMSAFMAGPNAKKVVENGALLSWKLGCSLNQNSVPDIRGVETPAR EGAMSAQLGYPVVGWHIANKKPTLPKRLRRQIHATPTPVTAIGPPTTAIQEPPSRIVPTPTSPAIPAPTE TMAPPVRDPVPGKPTVTIRTRGAI IQTPTLGPIQPTRVSEAGTTVPGQIRPTLTIPGYVEPTAVITPPTT TTKKPRVSTPKPATPSTDSSTTTTRRPTKKPRTPRPVPRVTTKAPITRLETASPPTRIRTTTSGVPRGGE PNQRPELKNHIDRVDAWVGTYFEVKIPSDTFYDNEDTTTDLKLLTLKLRQQLVGEKSWVQFNSNSQLMY GLPDSSSHVGKHEYFMHATDKGGLSAVDAFEIHVHKRPQGDKAPARFKARLAGDPAPVNDIHKKIALVKK LAFAFGDRNCSSITLQNI TRGSIVVEWNTNLTLPLEPCPKEQIIGLSRRIADENKPRPAF SNALEPDFKA LSI AVTGS GSCRHLQFIPVAPSPGSSAAPATEV PDRDPEKSS EDDVYLHTVIPAVVVAAILLIAGIIAM ICYRKKRKGKLTLEDQATFIKKGVP IIFADELDDSKPPPSSMPLILQEEKAPLPPPEYPNQSM PETTPL NQDTVGEYTPLRDEDPNAPPYQPPPPFTAPMEGKGSRPKNMTPYRSPPPYVPP

TRTRPLE - GFP Tag - V

Restriction Sites:

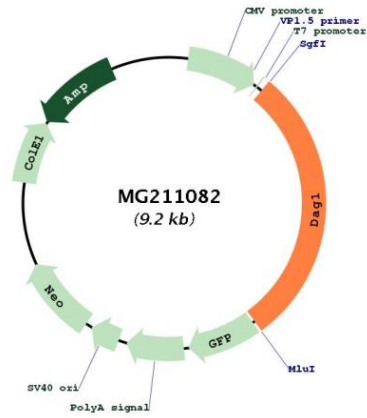
SgfI-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_010017
<b>ORF Size:</b>	2679 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_010017.4</a> , <a href="#">NP_034147.1</a>
<b>RefSeq Size:</b>	5591 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>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for MG211082