

## Product datasheet for **MC229125**

### Dag1 (NM\_001276493) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dag1 (NM_001276493) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dag1
Synonyms:	D9Wsu13; D9Wsu13e; DG; Dp71; Dp427
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC229125 representing NM\_001276493  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGTGGACAACTGGCTACTGCACCCCTCTGGGACAGACCTTTCTCCTCCTGTCTGTGGCTG  
 TGGCTCAGGCCCACTGGCCAGTGAACCTCAGAGGCTGTGAGGACTGGAAGAACCAGCTTGAGGCGTC  
 CATGCACTCAGTTCTCTCCGACTTCCAGGAGGCTGTTCCACCCTGGTTGGCATTCCAGACGGTACGGCT  
 GTTGTGCGGGCGCTCATTTGAGTGAACATTCCAACGGATTTAATTGCCTCCAGTGGGAGATCATCAAGG  
 TGTCTGCAGCAGGAAGGAGGCCCTTACCGTCTTGGCTACTGGACCCACACAGTCATATTTGGAAGG  
 CCTTCTCTTGACACTGATAAAGGTGTGCATTACATCTCAGTGAAGTGTGCACGCCTGGGAGCCAATGGA  
 AGCCACGTCACCCAGACTTCCAGTGTGTTCTATCGAGGTCTACCCTGAAGACCACAATGAGCCACAGT  
 CTGTACGGGCAGCCTCATCAGACCCTGGTGAAGTGTGCCATCTGCCTGTGCTGTGATGAGCCAGTGAC  
 TGTCTTACAGTGATTCTGGATGCTGACCTCACCAAGATGACCCAAAGCAAAGGATCGATCTGTTGAAC  
 AGAATGCAGAGCTTCTCAGAAGTGAAGTTCACAACATGAAGTTGGTGCCTGTAGTGAATAATAGACTAT  
 TTGACATGTCGGCCTTATGGCTGGCCAGGAAATGCAAAGAAAGTGGTAGAATGGGGCTCTCCTGTGTC  
 CTGAAACTAGGCTGCTCCTTGAACCAGAATAGCGTCCCTGACATCCGTGGTGTAGAAACCCCTGTAGG  
 GAGGGTGTATGTCTGCCCAACTTGGTTATCCTGTGGTGGGTGGCACATTGCCAATAAGAAGCCCACTC  
 TCCCAACAGACTCCGGAGGCAGATCCACGCCACACCTACACCTGTTACTGCCATTGGACCCCAACCCAC  
 GGCCATTCAGGAGCCACCATCGCGGATAGTGCCTACGCCTACATCTCCAGCCATTGCACCTCCAACAGAG  
 ACCATCTCCTCTGTGACGGGATCCTGTTCCAGGAAGCCACGGTACCATTCCGACGCGAGGTGCCA  
 TTATTGACAGCCCAACTCTGGGCCCTATCCAGCCTACTCGGGTGTGAGAAGCTGGTACCAGGGTTCCTGG  
 CCAGATTCGCCCAACACTGACAATTCTGGCTATGTAGAGCCACAGCCGTTATTACTCCTCCAACAACCT  
 ACCACAAGAAGCCACGAGTGTCCACGCCAAAGCCAGCAACGCCTTCAACTGATTCGTCACCTACCAACA  
 CTCGGAGGCCAACCAAAAAACCACGGACACCCCGACCAGTGCCTCGAGTCAACCAAGCACCCATCAC  
 CAGGTTGGAGACAGTTCACCCACTCGAATCCGTAACCACAGTGGAGTGCCTGGTGGAACTATTTGAGG  
 CTAACCAGCGGCAGAGCTCAAGAATCACATTGACAGGTTAGTGCCTGGTGGAACTATTTGAGG  
 TAAAGATCCATCAGACACCTTCTATGACAATGAGGATACCACTACCGACAAGCTCAAGTGAACCTGAA  
 GCTTCGAGAGCAGCAGTTAGTAGGTGAGAAATCGTGGGTTCAAGTTAACAGCAACAGCCAGCTCATGTAT  
 GGCTGCCTGACAGCAGCCATGTGGGAAAACATGAGTATTTATGCATGCCACAGACAAAGGGGCTCT  
 CGCTGTGGATGCCTTCGAGATCCATGTTCAAGCGCCACAAGGGGACAAGGCTCCTGCACGGTTCAA  
 GGCCAGGCTTGCAGGGATCCAGCACCGGTGGTGAATGACATTCACAAGAAAATTGCTTTGGTAAAGAAG  
 CTAGCTTTTGGTGGGATCGAACTGCAGCTCCATCACCTTCCAGAACATCACTCGGGGCTCTATCG  
 TGGTGGAAATGGACCAACAACACTCTGCCCTGGAGCCCTGCCCAAGGAGCAGATCATAGGGCTGAGCCG  
 CAGGATTGCTGATGAAAATGGGAAGCCTCGTCTGCCTTCTCCAATGCTCTGGAGCTGACTTTAAGGCT  
 CTGAGTATTGCTGTGACGGGCTCTGGCAGTTGTGCGCACCTCCAGTTTATCCCTGTGGCACCACCTCTC  
 CTGGAAGCTCAGCTGCACAGCCACAGAGGTTCCAGACAGGACCCCGAGAAGAGCAGTGAAGGACGATG  
 TTACCTGCACACCGTTATCCAGCCGTGGTGGTCCGGCCATCTGCTCATTGCTGGAATCATTGCTATG  
 ATCTGCTATCGCAAGAAGAGGAAGGGCAAGCTGACCCCTTGAGGACCAGGCCACCTTTATTAAGAAGGGG  
 TGCTATCATCTTTGCGGATGAGCTGGATGACTCTAAGCCCCGCCCTTCCAGCATGCCGCTCATCTT  
 GCAGGAAGAGAAGGCTCCCTCCACCTCTGAGTACCCCAACCAGAGTATGCCGAGACCACTCCTCTG  
 AACAGGACACTGTGGGAGAGTACACACCCCTGCGGGATGAGGATCTAACGCACCTCCCTATCAGCCAC  
 CCCCACCTTACGGCTCCATGGAGGGCAAGGCTCCCGTCCCAAGAACATGACCCCATACCGATCAC  
 CCTCCGATGTTCCCTTAA

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001276493

<b>Insert Size:</b>	2682 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001276493.1</a></u> , <u><a href="#">NP_001263422.1</a></u>
<b>RefSeq Size:</b>	5539 bp
<b>RefSeq ORF:</b>	2682 bp
<b>Locus ID:</b>	13138
<b>UniProt ID:</b>	<u><a href="#">Q62165</a></u>
<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> <p>Transcript Variant: This variant (7) differs in the 5' UTR, compared to variant 1. Variants 1-8 encode the same protein.</p>