

Product datasheet for **MC229126**

Dag1 (NM_001276494) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dag1 (NM_001276494) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dag1
Synonyms:	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: >MC229126 representing NM_001276494
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGTGGACAACTGGCTACTGCACCCCTCTGGGACAGACCTTTCTCCTCCTGTCTGTGGCTG
 TGGCTCAGGCCCACTGGCCCACTGAACCCCTCAGAGGCTGTGAGGGACTGGAAGAACCAGCTTGAGGCGTC
 CATGCACTCAGTTCTCTCCGACTTCCAGGAGGCTGTTCCACCCTGGTTGGCATTCCAGACGGTACGGCT
 GTTGTGCGGGCGCTCATTTGAGTGAGCATTCCAACGGATTTAATTGCCTCCAGTGGGAGATCATCAAGG
 TGTCTGCAGCAGGAAGGAGGCCCTTACCGTCTTGGCTACTGGACCCACACAGTCATATTTGGAAGG
 CCTTCTCTTGACACTGATAAAGGTGTGCATTACATCTCAGTGAGTGTGCACGCCTGGGAGCCAATGGA
 AGCCACGTCACCCAGACTTCCAGTGTGTTCTATCGAGGTCTACCCTGAAGACCACAATGAGCCACAGT
 CTGTACGGGCAGCCTCATCAGACCCTGGTGGTGTGAGTGTGATCTGCCTGTGCTGTGATGAGCCAGTGC
 TGTCTTACAGTGATTCTGGATGCTGACCTCACCAAGATGACCCAAAGCAAAGGATCGATCTGTTGAAC
 AGAATGCAGAGCTTCTCAGAAGTAGAATTCACAACATGAAGTTGGTGCCTGTAGTGAATAATAGACTAT
 TTGACATGTCGGCCTTATGGCTGGCCAGGAAATGCAAAGAAAGTGGTAGAATGGGGCTCTCCTGTG
 CTGAAACTAGGCTGCTCCTTGAACCAGAATAGCGTCCCTGACATCCGTGGTGTAGAAACCCCTGTAGG
 GAGGGTGTATGTCTGCCCAACTTGGTTATCCTGTGGTGGGTGGCACATTGCCAATAAGAAGCCCACTC
 TCCCAACAGACTCCGGAGGCAGATCCACGCCACACCTACACCTGTTACTGCCATTGGACCCCAACCCAC
 GGCCATTCAGGAGCCACCATCGCGGATAGTGCCTACGCCTACATCTCCAGCCATTGCACCTCCAACAGAG
 ACCATCTCCTCTGTGAGGGATCCTGTTCCAGGAAGCCACGGTACCATTCCGACGCGAGGTGCCA
 TTATTGACAGCCCAACTCTGGGCCCTATCCAGCCTACTCGGGTGTGAGAAGCTGGTACCAGGGTTCCTGG
 CCAGATTCGCCCAACACTGACAATTCCTGGCTATGTAGAGCCACAGCCGTTATTACTCCTCCAACAACCT
 ACCACAAGAAGCCACGAGTGTCCACGCCAAAGCCAGCAACGCCTTCAACTGATTCGTCAACTACCACA
 CTCGGAGGCCAACCAAAAAACCACGGACACCCCGACCAGTGCCTCGAGTCAACCAAGCACCCATCAC
 CAGGTTGGAGACAGTTCACCCCACTCGAATCCGTAACCACAGTGGAGTGCCTGGTGGAACTATTTGAGG
 CTAACCAGCGGCAGAGCTCAAGAATCACATTGACAGGGTAGATGCCTGGTGGAACTATTTGAGG
 TAAAGATTCCATCAGACACCTTCTATGACAATGAGGATACCACTACCGACAAGCTCAAGTGCACCTGAA
 GCTTCGAGAGCAGCAGTTAGTAGGTGAGAAATCGTGGGTTCAAGTTAACAGCAACAGCCAGCTCATGTAT
 GGCTGCCTGACAGCAGCCATGTGGGAAAACATGAGTATTTATGCATGCCACAGACAAAGGGGCTCT
 CGCTGTGGATGCCTTCGAGATCCATGTTCAAGCGCCACAAGGGGACAAGGCTCCTGCACGGTTCAA
 GGCCAGGCTTGCAGGGATCCAGCACCGGTGGTGAATGACATTCACAAGAAAATTGCTTTGGTAAAGAAG
 CTAGCTTTTGGTGGGATCGAACTGCAGCTCCATCACCCCTCAGAACATCACTCGGGGCTCTATCG
 TGGTGGAAATGGACCAACAACACTCTGCCCTGGAGCCCTGCCCAAGGAGCAGATCATAGGGCTGAGCCG
 CAGGATTGCTGATGAAAATGGGAAGCCTCGTCTGCCTTCTCCAATGCTCTGGAGCTGACTTTAAGGCT
 CTGAGTATTGCTGTGACGGGCTCTGGCAGTTGTGCGCACCTCCAGTTTATCCCTGTGGCACCACCTCTC
 CTGGAAGCTCAGCTGCACAGCCACAGAGGTTCCAGACAGGACCCCGAGAAGAGCAGTGGAGCAGATG
 TTACCTGCACACCGTTATCCAGCCGTGGTGGTGGCGGCCATCTGCTCATTGCTGGAATCATTGCTATG
 ATCTGCTATCGCAAGAAGAGGAAGGGCAAGCTGACCCCTTGAGGACCAGGCCACCTTTATTAAGAAGGGG
 TGCTATCATCTTTGCGGATGAGCTGGATGACTCTAAGCCCCGCTCTTCCAGCATGCCGCTCATCTT
 GCAGGAAGAGAAGGCTCCCTCCACCTCTGAGTACCCCAACCAGAGTATGCCGAGACCACTCCTCTG
 AACAGGACTGTGGGAGAGTACACACCCCTGCGGGATGAGGATCCTAACGCACCTCCCTATCAGCCAC
 CCCCACCTTACGGCTCCATGGAGGGCAAGGCTCCCGTCCCAAGAACATGACCCCATACCGATCACC
 CCTCCGTATGTTCCCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001276494

Insert Size:	2682 bp
OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001276494.1</u> , <u>NP_001263423.1</u>
RefSeq Size:	5430 bp
RefSeq ORF:	2682 bp
Locus ID:	13138
Cytogenetics:	9 59.08 cM
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]