

Product datasheet for **MC229124**

Dag1 (NM_001276492) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dag1 (NM_001276492) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC229124 representing NM_001276492
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCTGTGGACAACTGGCTACTGCACCCCTCTGGGACAGACCTTTCTCCTCCTGTCTGTGGCTG
 TGGCTCAGGCCCACTGGCCAGTGAACCTCAGAGGCTGTGAGGGACTGGAAGAACCAGCTTGAGGCGTC
 CATGCACTCAGTTCTCTCCGACTTCCAGGAGGCTGTTCCACCCTGGTTGGCATTCCAGACGGTACGGCT
 GTTGTGCGGGCGCTCATTTGAGTGTGACATTCCAACGGATTTAATTGCCTCCAGTGGGAGATCATCAAGG
 TGTCTGCAGCAGGAAGGAGGCCCTACCGTCTTGGCTACTGGACCCACACAGTCATATTTGGAAGG
 CCTTCTCTTGACACTGATAAAGGTGTGCATTACATCTCAGTGTGCTGCACGCTGGGAGCCAATGGA
 AGCCACGTCACCCAGACTTCCAGTGTGTTCTATCGAGGTCTACCCTGAAGACCACAATGAGCCACAGT
 CTGTACGGGCAGCCTCATCAGACCCTGGTGTGAGTGTGCCATCTGCCTGTGCTGTGATGAGCCAGTGC
 TGTCTTACAGTGATTCTGGATGTGACCTCACCAAGATGACCCAAAGCAAAGGATCGATCTGTTGAAC
 AGAATGCAGAGCTTCTCAGAAGTGAAGTTCACAACATGAAGTTGGTGCCTGTAGTGAATAATAGACTAT
 TTGACATGTCCGGCTTTCATGGCTGGCCAGGAAATGCAAAGAAAGTGGTAGAATGGGGCTCTCCTGTG
 CTGAAACTAGGCTGCTCCTTGAACCAGAATAGCGTCCCTGACATCCGTGGTGTAGAAACCCCTGTAGG
 GAGGGTGTATGTCTGCCCAACTTGGTTATCCTGTGGTGGGTGGCACATTGCCAATAAGAAGCCCACTC
 TCCCAACAGACTCCGGAGGCAGATCCACGCCACACCTACACCTGTTACTGCCATTGGACCCCAACAC
 GGCCATTCAGGAGCCACCATCGCGGATAGTGCCTACGCCATACATCTCCAGCCATTGCACCTCCAACAG
 ACCATCTCCTCTGTGAGGGATCCTGTTCCAGGAAGCCACGGTACCATTCCGACCGGAGGTGCCA
 TTATTGACAGCCCAACTCTGGCCCTATCCAGCCTACTCGGGTGTGAGAAGCTGGTACCACGGTTCTGG
 CCAGATTCGCCCAACACTGACAATTCCTGGCTATGTAGAGCCACAGCCGTTATTACTCCTCCAACAAC
 ACCACAAGAAGCCACGAGTGTCCACGCCAAAGCCAGCAACGCCTTCAACTGATTCGTCAACTACCAAA
 CTGCGAGGCCAACCAAAAAACCACGGACACCCGACCAGTGCCTCGAGTACCACCAAGCACCCATCAC
 CAGGTTGGAGACAGTTCACCCACTCGAATCCGTAACCACAGTGGAGTGGCCCGTGGGGGAGAA
 CCTAACAGCGGCAGAGCTCAAGAATCACATTGACAGGGTAGATGCCTGGTGGAACTATTTTGGG
 TAAAGATTCCATCAGACACCTTCTATGACAATGAGGATACCACTACCGACAAGCTCAAGTGCACCTGAA
 GCTTCGAGAGCAGCAGTTAGTAGGTGAGAAATCGTGGGTTCAAGTTAACAGCAACAGCCAGCTCATGTAT
 GGCTGCCTGACAGCAGCCATGTGGGAAAACATGAGTATTTTATGCATGCCACAGACAAAGGGGCTCT
 CCGCTGTGGATGCCTTCGAGATCCATGTTCAAGCGCCACAAGGGGACAAGGCTCCTGCACGGTTCAA
 GGCCAGGCTTGCAGGGATCCAGCACCGGTGGTGAATGACATTCACAAGAAAATTGCTTTGGTAAAGAAG
 CTAGCTTTTGGTGGGATCGAACTGCAGCTCCATCACCTTCCAGAACATCACTCGGGGCTCTATCG
 TGGTGGAAATGGACCAACAACACTCTGCCCTGGAGCCCTGCCCAAGGAGCAGATCATAGGGCTGAGCCG
 CAGGATTGCTGATGAAAATGGGAAGCCTCGTCTGCCTTCTCCAATGCTCTGGAGCTGACTTTAAGGCT
 CTGAGTATTGCTGTGACGGGCTCTGGCAGTTGTGCGCACCTCCAGTTTATCCCTGTGGCACCACCTCTC
 CTGGAAGCTCAGCTGCACAGCCACAGAGGTTCCAGACAGGACCCCGAGAAGAGCAGTGGAGCAGATG
 TTACCTGCACACCGTTATCCAGCCGTGGTGGTCCGGCCATCTGCTCATTGCTGGAATCATTGCTATG
 ATCTGCTATCGCAAGAAGAGGAAGGGCAAGCTGACCCCTTGAGGACCAGGCCACCTTTATTAAGAAGGGG
 TGCTATCATCTTTGCGGATGAGCTGGATGACTCTAAGCCCCGCCCTTCCAGCATGCCGCTCATCTT
 GCAGGAAGAGAAGGCTCCCTCCACCTCTGAGTACCCCAACCAGAGTATGCCGAGACCACTCTCTG
 AACAGGACACTGTGGGAGAGTACACACCCCTGCGGGATGAGGATCCTAACGCACCTCCCTATCAGCCAC
 CCCCACCTTACGGCTCCATGGAGGGCAAGGCTCCCGTCCCAAGAACATGACCCCATACCGATCACC
 CCCTCCGATGTTCCCTTAA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
 ACCN: NM_001276492

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_001276492.1</u> , <u>NP_001263421.1</u>
RefSeq Size:	5582 bp
RefSeq ORF:	2682 bp
Locus ID:	13138
UniProt ID:	<u>Q62165</u>
Cytogenetics:	9 59.08 cM
Gene Summary:	<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 (4) differs in the 5' UTR, compared to variant 1. Variants 1-8 encode the same protein.</p>