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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC229125 representing NM_001276493
Red=Cloning site Blue=ORF Orange=Stop codon

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
CCCTCCGTATGTTCCCCCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001276493

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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:	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_001276493.1, NP_001263422.1
RefSeq Size:	5539 bp
RefSeq ORF:	2682 bp
Locus ID:	13138
UniProt ID:	Q62165
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] Transcript Variant: This variant (7) differs in the 5' UTR, compared to variant 1. Variants 1-8 encode the same protein.

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