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Product datasheet for SC329207

Alpha Dystroglycan (DAG1) (NM_001177640) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alpha Dystroglycan (DAG1) (NM_001177640) Human Untagged Clone
Tag:	Tag Free
Symbol:	Alpha Dystroglycan
Synonyms:	156DAG; A3a; AGRNR; DAG; LGMDR16; MDDGA9; MDDGC7; MDDGC9
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001177640, the custom clone sequence may differ by one or more nucleotides

ATGAGGATGTCTGTGGGCCTCTCGCTGCTGCTGCCCCTCTGGGGGAGGACCTTTCTCCTC
CTGCTCTCTGTGGTTATGGCTCAGTCCCACTGGCCCAGTGAACCCTCAGAGGCTGTCAGG
GACTGGGAAAACCAGCTTGAGGCATCCATGCACTCAGTGCTCTCAGACCTCCACGAGGCT
GTTCCCACAGTGGTTGGCATTCCTGATGGCACGGCTGTCGTCGGGCGCTCATTTCGAGTG
ACCATTCCAACAGATTTGATTGCCTCCAGTGGAGATATCATCAAGGTATCAGCGGCAGGG
AAGGAGGCTTTGCCATCTTGGCTGCACTGGGACTCACAGAGCCACACCCTGGAGGGCCTC
CCCCTTGACACTGATAAGGGTGTGCATTACATTTCAGTGAGCGCTACACGGCTGGGGGCC
AACGGGAGCCACATCCCCCAGACCTCCAGTGTGTTCTCCATCGAGGTCTACCCTGAAGAC
CACAGTGAGCTGCAGTCGGTGAGGACAGCCTCCCCAGACCCTGGTGAGGTGGTATCATCT
GCCTGTGCTGCGGATGAACCTGTGACTGTTTTGACGGTGATTTTGGATGCCGACCTCACC
AAGATGACCCCAAAGCAAAGGATTGACCTCCTGCACAGGATGCGGAGCTTCTCAGAAGTA
GAGCTTCACAACATGAAATTAGTGCCGGTGGTGAATAACAGACTATTTGACATGTCGGCC
TTCATGGCTGGCCCGGGAAATGCAAAAAAGGTGGTGGAGAATGGGGCCCTTCTCTCCTGG
AAGCTGGGCTGCTCCCTGAACCAGAACAGTGTGCCTGACATTCATGGTGTAGAGGCCCCT
GCCAGGGAGGGCGCAATGTCTGCTCAGCTTGGCTACCCTGTGGTGGGTTGGCACATCGCC
AATAAGAAGCCCCCTCTTCCCAAACGCGTCCGGAGGCAGATCCATGCTACACCCACACCT
GTCACTGCCATTGGGCCCCCAACCACGGCTATCCAGGAGCCCCCATCCAGGATCGTGCCA
ACCCCCACATCTCCAGCCATTGCTCCTCCAACAGAGACCATGGCTCCTCCAGTCAGGGAT
CCTGTTCCTGGGAAACCCACGGTCACCATCCGGACTCGAGGCGCCATTATTCAAACCCCA
ACCCTAGGCCCCATCCAGCCTACTCGGGTGTCAGAAGCTGGCACCACAGTTCCTGGCCAG
ATTCGCCCAACGATGACCATTCCTGGCTATGTGGAGCCTACTGCAGTTGCTACCCCTCCC
ACAACCACCACCAAGAAGCCACGAGTATCCACACCAAAACCAGCAACGCCTTCAACTGAC
TCCACCACCACCACGACTCGCAGGCCAACCAAGAAACCACGGACACCCCGGCCAGTGCCC
CGGGTCACCACCAAAGTTTCCATCACCAGATTGGAAACTGCCTCACCGCCTACTCGTATT
CGCACCACCACCAGTGGAGTGCCCCGTGGCGGAGAACCCAACCAGCGCCCAGAGCTCAAG
AACCATATTGACAGGGTAGATGCCTGGGTTGGCACCTACTTTGAGGTGAAGATCCCGTCA
GACACTTTCTATGACCATGAGGACACCACCACTGACAAGCTGAAGCTGACCCTGAAACTG
CGGGAGCAGCAGCTGGTGGGCGAGAAGTCCTGGGTACAGTTCAACAGCAACAGCCAGCTC
ATGTATGGCCTTCCCGACAGCAGCCACGTGGGCAAACACGAGTATTTCATGCATGCCACA
GACAAGGGGGGCCTGTCGGCTGTGGATGCCTTCGAGATCCACGTCCACAGGCGCCCCCAA
GGGGATAGGGCTCCTGCAAGGTTCAAGGCCAAGTTTGTGGGTGACCCGGCACTGGTGTTG
AATGACATCCACAAGAAGATTGCCTTGGTAAAGAAACTGGCCTTCGCCTTTGGAGACCGA
AACTGTAGCACCATCACCCTGCAGAATATCACCCGGGGCTCCATCGTGGTGGAATGGACC
AACAACACACTGCCCTTGGAGCCCTGCCCCAAGGAGCAGATCGCTGGGCTGAGCCGCCGG
ATCGCTGAGGATGATGGAAAACCTCGGCCTGCCTTCTCCAACGCCCTAGAGCCTGACTTT
AAGGCCACAAGCATCACTGTGACGGGCTCTGGCAGTTGTCGGCACCTACAGTTTATCCCT
GTGGTACCACCCAGGAGAGTGCCCTCAGAGGCGCCGCCCACAGAAGTGCCTGACAGGGAC
CCTGAGAAGAGCAGTGAGGATGATGTCTACCTGCACACAGTCATTCCGGCCGTGGTGGTC
GCAGCCATCCTGCTCATTGCTGGCATCATTGCCATGATCTGCTACCGCAAGAAGCGGAAG
GGCAAGCTTACCCTTGAGGACCAGGCCACCTTCATCAAGAAGGGGGTGCCTATCATCTTT
GCAGACGAACTGGACGACTCCAAGCCCCCACCCTCCTCCAGCATGCCACTCATTCTGCAG
GAGGAGAAGGCTCCCCTACCCCCTCCTGAGTACCCCAACCAGAGTGTGCCCGAGACCACT
CCTCTGAACCAGGACACCATGGGAGAGTACACGCCCCTGCGGGATGAGGATCCCAATGCG
CCTCCCTACCAGCCCCCACCGCCCTTCACAGCACCCATGGAGGGCAAGGGCTCCCGTCCC
AAGAACATGACCCCATACCGGTCACCTCCTCCCTATGTCCCACCTTAA

Restriction Sites: Please inquire

ACCN: NM_001177640

Insert Size: 5600 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001177640.1, NP_001171111.1
RefSeq Size:	5600 bp
RefSeq ORF:	2688 bp
Locus ID:	1605
UniProt ID:	Q14118
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Hypertrophic cardiomyopathy (HCM), Viral myocarditis
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. Certain mutations in this gene are known to cause distinct forms of muscular dystrophy. Alternative splicing results in multiple transcript variants, all encoding the same protein. [provided by RefSeq, Nov 2015] Transcript Variant: This variant (9) differs in the 5' UTR compared to variant 1. All variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.