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Product datasheet for SC319574

Desmin (DES) (NM_001927) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Desmin (DES) (NM_001927) Human Untagged Clone
Tag:	Tag Free
Symbol:	Desmin
Synonyms:	CDCD3; CSM1; CSM2; LGMD1D; LGMD1E; LGMD2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene ORF sequence for NM_001927 edited
GAGAGAGAACTAGTCTCCCCTCGCCGCATCCACTCTCCGGCCGGCCGCCTGCCCGCCGCC
TCCTCCGTGCGCCCGCCAGCCTCGCCCGCGCCGTCACCATGAGCCAGGCCTACTCGTCCA
GCCAGCGCGTGTCCTCCTACCGCCGCACCTTCGGCGGGGCCCCGGGCTTCCCGCTCGGCT
CCCCGCTGAGCTCGCCCGTGTTCCCGCGGGCGGGTTTCGGCTCTAAGGGCTCCTCCAGCT
CGGTGACGTCCCGCGTGTACCAGGTGTCGCGCACGTCGGGCGGGGCCGGGGGCCTGGGGT
CGCTGCGGGCCAGCCGGCTGGGGACCACCCGCACGCCCTCCTCCTACGGCGCAGGCGAGC
TGCTGGACTTCTCACTGGCCGACGCGGTGAACCAGGAGTTTCTGACCACGCGCACCAACG
AGAAGGTGGAGCTGCAGGAGCTCAATGACCGCTTCGCCAACTACATCGAGAAGGTGCGCT
TCCTGGAGCAGCAGAACGCGGCGCTCGCCGCCGAAGTGAACCGGCTCAAGGGCCGCGAGC
CGACGCGAGTGGCCGAGCTCTACGAGGAGGAGCTGCGGGAGCTGCGGCGCCAGGTGGAGG
TGCTCACTAACCAGCGCGCGCGCGTCGACGTCGAGCGCGACAACCTGCTCGACGACCTGC
AGCGGCTCAAGGCCAAGCTGCAGGAGGAGATTCAGTTGAAGGAAGAAGCAGAGAACAATT
TGGCTGCCTTCCGAGCGGACGTGGATGCAGCTACTCTAGCTCGCATTGACCTGGAGCGCA
GAATTGAATCTCTCAACGAGGAGATCGCGTTCCTTAAGAAAGTGCATGAAGAGGAGATCC
GTGAGTTGCAGGCTCAGCTTCAGGAACAGCAGGTCCAGGTGGAGATGGACATGTCTAAGC
CAGACCTCACTGCCGCCCTCAGGGATATCCGGGCTCAGTATGAGACCATCGCGGCTAAGA
ACATTTCTGAAGCTGAGGAGTGGTACAAGTCGAAGGTGTCAGACCTGACCCAGGCAGCCA
ACAAGAACAACGACGCCCTGCGCCAGGCCAAGCAGGAGATGATGGAATACCGACACCAGA
TCCAGTCCTACACCTGCGAGATTGACGCCCTCAAGGGCACTAACGATTCCCTGATGAGGC
AGATGCGGGAATTGGAGGACCGATTTGCCAGTGAGGCCAGTGGCTACCAGGACAACATTG
CACGCCTGGAGGAGGAAATCCGGCACCTCAAGGATGAGATGGCCCGCCATCTGCGCGAGT
ACCAGGACCTGCTCAACGTGAAGATGGCCCTGGATGTGGAGATTGCCACCTACCGGAAGC
TGCTGGAGGGAGAGGAGAGCCGGATCAATCTCCCCATCCAGACCTACTCTGCCCTCAATT
TCCGAGAAACCAGCCCTGAGCAAAGGGGTTCTGAGGTCCATACCAAGAAGACGGTGATGA
TCAAGACCATCGAGACACGGGATGGGGAGGTCGTCAGTGAGGCCACACAGCAGCAGCATG
AAGTGCTCTAAAGACAGAGACCCTCTGCCACCAGAGACCGTCCTCACCCCTGTCCTCACT
GCTCCCTGAAGCCAGCCTTCTTCCATCCCAGGACACCACACCCAGCCTCAGTCCTCCCCT
CACAGCCTCTGACCCCTCCTCACTGGCCATCCCTCGTGGTCCCCAACAGCGACATAGCCC
ATCCCTGCCTGGTCACAGGGCATGCCCCGGCCACCTCTGCGGACCCCAGCTGTGAGCCTT
GGCTGTTGGCAGTGAGTGAGCCTGGCTCTTGTGCTGGATGGAGCCCAGGCGGGAGCGGTG
GCCCTGTCCCTCCCACCTCTGTGACCTCAGGCACTAGCCTTTGGCTCTGGAGACAGCCCC
AGAGCAGGGTGTTGGGATACTGCAGGGCCAGGACTGAGCCCCGCAGACCTCCCCAGCCCC
TAGCCCAGGAGAGAGAAAGCCAGGCAGGTAGCCAGGGGGACTAGCCCCTGTGGAGACTGG
GGGGCTTGAAATTGTCCCCGTGGTCTCTTACTTTCCTTTCCCCAGCCCAGGGTGGACTTA
GAAAGCAGGGGCTACAAGAGGGAATCCCCGAAGGTGCTGGAGGTGGGAGCAGGAGATTGA
GAAGGAGAGAAAGTGGGTGAGATGCTGGAGAAGAGAGGAGAGGAGAGAGGCAGAGAGCGG
TCTCAGGCTGGTGGGAGGGGCGCCCACCTCCCCACGCCCTCCCCTCCCCTGCTGCAGGGG
CTCTGGAGAGAAACAATAAAGAGATTCACACACAAGCAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_001927

Insert Size: 2300 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: no

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_001927.3, NP_001918.3
RefSeq Size:	2268 bp
RefSeq ORF:	1413 bp
Locus ID:	1674
UniProt ID:	P17661
Cytogenetics:	2q35
Domains:	filament, filament_head
Protein Families:	Druggable Genome
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)
Gene Summary:	This gene encodes a muscle-specific class III intermediate filament. Homopolymers of this protein form a stable intracytoplasmic filamentous network connecting myofibrils to each other and to the plasma membrane. Mutations in this gene are associated with desmin-related myopathy, a familial cardiac and skeletal myopathy (CSM), and with distal myopathies. [provided by RefSeq, Jul 2008]