

## Product datasheet for **MC201460**

### Des (NM\_010043) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Des (NM_010043) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Des
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC031760 sequence for NM\_010043  
 ATCCAATCCAGCCGGCTGCCCGCCGCTGCCTCCTCTGTGCGTCCGCCAGCCAGCCTCGTCCACGCCGC  
 CACCATGAGCCAGGCCTACTCGTCCAGCCAGCGGTGTCTCCTACCGCCGCACCTTCGGCGGGCCCCG  
 GGCTTCTCTCTGGGCTCCCCGCTGAGCTCTCCCGTGTTCCTCGAGCAGGCTTCGGTACCAAGGGTCTCT  
 CGAGTTCAATGACATCCCGCGTGTACCAGGTGTGCGGCACGTCCGGCGGGGCTGGAGGCTTGGGGTCTG  
 GCGGTCTAGCCGGCTGGGGACCACCCGAGCGCCATCCTATGGCGCGGGCAGCTGCTGGACTTCTCCCTG  
 GCCGACGCTGTGAACCAGGAGTTCTGGCCACGCGCACCACGAGAAGGTGGAGCTGCAAGAGCTCAATG  
 ACCGCTTCGCCAACTACATCGAGAAGGTGCGCTTCTTGGAGCAGCAGAACGCCCGCTCGCCGCCGAGGT  
 CAACCGGCTCAAGGGCCGCAACCGACTCGGGTCCGCCGAGCTCTACGAGGAGGAGATGCGCGAGCTGCGG  
 CGCCAGGTGGAGGTGCTACCAACCAGCGCGCCCGGGTCCGACGTGGAGCGTGACAACCTGATAGACGACC  
 TGCAGAGGCTCAAGGCCAACTACAGGAGGAAATCCAATAAGAGAAGAAGCAGAGAACAACCTTGGTCTG  
 CTTCCGAGCGGATGTGGATGCAGCCACTTAGCTCGTATTGACCTGGAGCGCAGAATCGAATCCCTCAAC  
 GAGGAGATCGCGTTCCTAAGAAAGTGCATGAAGAGGAGATCCGTGAGCTTCAGGCCAGCTTCAGGAAC  
 AGCAGGTCCAGGTGGAGATGGACATGTCCAAGCCGGACCTCACAGCTGCCCTCAGGGACATCCGGGCTCA  
 GTATGAGACCATCGCGGTAAGAACATCTCTGAGGCTGAAGAATGGTACAAGTCCAAGGTTTCAGACTTG  
 ACTCAGGCAGCCAATAAGAAACAACGATGCGCTGCGCCAAGCCAAGCAGGAGATGATGGAATACCGACACC  
 AGATCCAGTCTACACCTGCGAGATTGATGCCCTCAAGGGCACCACGACTCCCTGATGAGGCAGATGAG  
 GGAGTGGAGGATCGCTTGGCCAGCGAGGCCAATGGCTATCAGGACAACATTGCGCGCCTGGAGGAGGAG  
 ATCCGACACCTAAAGGATGAGATGGCCCGCCATCTGCGCGAGTACCAGGACCTGCTCAATGTGAAGATGG  
 CCTTGGATGTGGAGATCGCCACCTACCGGAAGCTACTGGAGGGCAGGAGAGCAGGATCAACCTTCTAT  
 CCAGACCTTCTGCTCTCAACTCCGAGAAACCAGCCCCGAGCAAAGGGGTTCTGAAGTCCATACCAAAA  
 AAGACAGTGATGATCAAGACCATTGAGACCCGGGATGGAGAGGTTGTGAGCGAGGCTACACAGCAACAAC  
 ATGAAGTGTGTAAGCCAGGAATTCAGTGTCTTGGCCCCGCTCTACTGCCTCCTGAAGCCAGCCTTTC  
 CACTCTCGGATATCACACCCAGCCACTTTTCTCCACTCACAGGCTCTGACCCCCCTCACCGATCACCCC  
 TTTGTGGTCTTATGCTGCCCAACCCAGGAACCCCTCAGCCACCTCTGCAGACCCTCCATGAGCCCT  
 GGCTATTGGCAGGTGTCAAAGCTGGCTCTTAAGAGAGAACCAGCTCAAGTCATCGCCCTTCCCCTTCCA  
 CCTTTGTGACCCCTGGCTTAGGAGAGGGTACCAGAGAGGGTGTGGGATCTGCAGGGTCCAGGACCGAGTT  
 TGTGGACATCCCCAGCCTGGGTCCAGAGACAGAATGAAGCCTCAGCGAGCTGAGATGGAGAGTGGGGGCC  
 TGAACACTGCCCTCATGGCCCTCTTTCCCATCGCAGCCAGGATGGCCTTGGAAAGCGGGGGCTGTA  
 AGAGGGAAGCGGAAGGTGCTGGATGTGGGAGCAGGAGCTACAGAAGGAGAGAGGATGGGTGAGGAGCTGG  
 AGAGGAAGGAAGAGAGAGGCAGAGAGTGGGCTCAGGTTGGTGGGAGGGTACCACCTCCCCTGCCTGCCCC  
 TCCCACCCGAGGGCCTGGACAGAAACAATAATAAGAGACAAGCACAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_010043

**Insert Size:** 1410 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).

**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:** [BC031760](#), [AAH31760](#)

**RefSeq Size:** 2162 bp

**RefSeq ORF:** 1410 bp

**Locus ID:** 13346

**UniProt ID:** [P31001](#)

**Cytogenetics:** 1 38.85 cM

**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 and are essential for maintaining the strength and integrity of skeletal, cardiac and smooth muscle fibers. Mutations in this gene affect assembly of intermediate filaments. Mice lacking this gene are able to develop and reproduce but exhibit abnormal muscle fibers. Mutations in the human gene are associated with myofibrillar myopathy, dilated cardiomyopathy, neurogenic scapuloperoneal syndrome and autosomal recessive limb-girdle muscular dystrophy, type 2R. [provided by RefSeq, Jan 2014]