

Product datasheet for **MR207502**

Des (NM_010043) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Des (NM_010043) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Des
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207502 representing NM_010043
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCCAGGCCTACTCGTCCAGCCAGCGCGTGTCTCCTACCGCCGACCTTCGGCGGCGCCCGGGCT
 TCTCTCTGGGCTCCCGCTGAGCTCTCCCGTGTCCCTCGAGCAGGCTTCGGTACCAAGGGCTCCTCGAG
 TTCAATGACATCCCGCGTGTACCAGGTGTCGCGCACGTCGGCGGGGCTGGAGGCTTGGGGTCGCTGCGG
 TCTAGCCGGCTGGGGACACCCGAGCGCCATCCTATGGCGGGGCGAGCTGCTGGACTTCTCCCTGGCCG
 ACGCTGTGAACCAGGAGTTCCTGGCCACGCGCACCAACGAGAAGGTGGAGCTGCAAGAGCTCAATGACCG
 CTTGCGCAACTACATCGAGAAGGTGCGCTTCTGGAGCAGCAGAACGCCGCTCGCCGCCGAGGTCAAC
 CGGCTCAAGGGCCGGAACCGACTCGGGTCCGCGAGCTCTACGAGGAGGAGATGCGCGAGCTGCGGCGCC
 AGGTGGAGGTGCTACCAACCAGCGCGCCCGGGTCCGAGCTGAGCGGTGACAACCTGATAGACGACCTGCA
 GAGGCTCAAGGCCAACTACAGGAGGAAATCCAATAAGAGAAGAAGCAGAGAACAACCTGGCTGCCTTC
 CGAGCGGATGTGGATGCAGCCACTCTAGCTCGTATTGACCTGGAGCGCAGAATCGAATCCCTCAACGAGG
 AGATCGCGTTCCTTAAGAAAGTGCATGAAGAGGAGATCCGTGAGCTTCAGGCCAGCTTCAGGAACAGCA
 GGTCCAGGTGGAGATGGACATGTCCAAGCCGACCTCACAGCTGCCCTCAGGGACATCCGGGCTCAGTAT
 GAGACCATCGCGGCTAAGAACATCTCTGAGGCTGAAGAATGGTACAAGTCCAAGGTTTCAGACTTGACTC
 AGGCAGCCAATAAGAACAACGATGCGCTGCGCCAAGCCAAGCAGGAGATGATGGAATACCGACACCGAT
 CCAGTCTACACCTGCGAGATTGATGCCCTCAAGGGCACCACGACTCCCTGATGAGGCAGATGAGGGAG
 CTGGAGGATCGCTTGGCAGCGAGGCCAATGGCTATCAGGACAACATTGCGCGCTGGAGGAGGAGATCC
 GACACCTAAAGGATGAGATGGCCCGCCATCTGCGCGAGTACCAGGACCTGCTCAATGTGAAGATGGCCTT
 GGATGTGGAGATCGCCACCTACCGGAAGCTACTGGAGGGCGAGGAGAGCAGGATCAACCTTCTATCCAG
 ACCTTCTCTGCTCTCAACTTCCGAGAAACCAGCCCGAGCAAAGGGTTCTGAAGTCCATACCAAAAAGA
 CAGTGATGATCAAGACCATGAGACCCGGGATGGAGAGGTTGTCAGCGAGGCTACACAGCAACAACATGA
 AGTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207502 representing NM_010043
 Red=Cloning site Green=Tags(s)

MSQAYSSSQRVSSYRRTFGGAPGFSLGSPSSPVFPRAGFGTKGSSSSMSTRVYQVSRSTSGGAGGLGSLR
 SSRLGTTTRAPSYGAGELLDLDFSLADAVNQEFLATRTNEKVELQELNDRFANYIEKVRFLQQNAALAAEVN
 RLKGREPTRVAELYEEEMRELRRQVEVL TNQRARVDVERDNLIDDLQRLKAKLQEEIQLREEAENNLAAF
 RADVDAATLARIDLERRIESLNEEIAFLKVVHEEEIRELQAQLQEQQVQVEMDMSKPDLTAAALRDIRAQY
 ETIAAKNI SEAEWYKSKVSDLTQAANKNDALRQAKQEMMEYRHQIQSYTCEIDALKGTNDSLMRQMRE
 LEDRFASEANGYQDNIAARLEEEIRHLKDEMARHLREYQDLLNVKMALDVEIATYRKLLLEGESRINLPIQ
 TFSALNFRETSPEQRGSEVHTKKTVMIKTIETRDGEVSEATQQQHEVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9075_b08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_010043

ORF Size: 1407 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_010043.2](#), [NP_034173.1](#)
RefSeq Size: 3065 bp

RefSeq ORF: 1410 bp

Locus ID: 13346

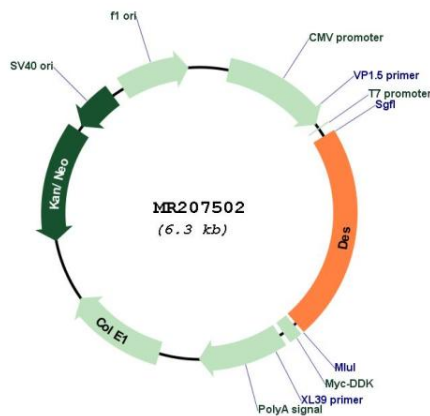
UniProt ID: [P31001](#)

Cytogenetics: 1 38.85 cM

MW: 53.5 kDa

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]

Product images:



Circular map for MR207502