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Product datasheet for MG207502

Des (NM_010043) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Des (NM_010043) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Des
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG207502 representing NM_010043
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCAGGCCTACTCGTCCAGCCAGCGCGTGTCCTCCTACCGCCGCACCTTCGGCGGCGCCCCGGGCT
TCTCTCTGGGCTCCCCGCTGAGCTCTCCCGTGTTCCCTCGAGCAGGCTTCGGTACCAAGGGCTCCTCGAG
TTCAATGACATCCCGCGTGTACCAGGTGTCGCGCACGTCGGGCGGGGCTGGAGGCTTGGGGTCGCTGCGG
TCTAGCCGGCTGGGGACCACCCGAGCGCCATCCTATGGCGCGGGCGAGCTGCTGGACTTCTCCCTGGCCG
ACGCTGTGAACCAGGAGTTCCTGGCCACGCGCACCAACGAGAAGGTGGAGCTGCAAGAGCTCAATGACCG
CTTCGCCAACTACATCGAGAAGGTGCGCTTCTTGGAGCAGCAGAACGCCGCGCTCGCCGCCGAGGTCAAC
CGGCTCAAGGGCCGCGAACCGACTCGGGTCGCCGAGCTCTACGAGGAGGAGATGCGCGAGCTGCGGCGCC
AGGTGGAGGTGCTCACCAACCAGCGCGCCCGGGTCGACGTGGAGCGTGACAACCTGATAGACGACCTGCA
GAGGCTCAAGGCCAAACTACAGGAGGAAATCCAACTAAGAGAAGAAGCAGAGAACAACTTGGCTGCCTTC
CGAGCGGATGTGGATGCAGCCACTCTAGCTCGTATTGACCTGGAGCGCAGAATCGAATCCCTCAACGAGG
AGATCGCGTTCCTTAAGAAAGTGCATGAAGAGGAGATCCGTGAGCTTCAGGCCCAGCTTCAGGAACAGCA
GGTCCAGGTGGAGATGGACATGTCCAAGCCGGACCTCACAGCTGCCCTCAGGGACATCCGGGCTCAGTAT
GAGACCATCGCGGCTAAGAACATCTCTGAGGCTGAAGAATGGTACAAGTCCAAGGTTTCAGACTTGACTC
AGGCAGCCAATAAGAACAACGATGCGCTGCGCCAAGCCAAGCAGGAGATGATGGAATACCGACACCAGAT
CCAGTCCTACACCTGCGAGATTGATGCCCTCAAGGGCACCAACGACTCCCTGATGAGGCAGATGAGGGAG
CTGGAGGATCGCTTTGCCAGCGAGGCCAATGGCTATCAGGACAACATTGCGCGCCTGGAGGAGGAGATCC
GACACCTAAAGGATGAGATGGCCCGCCATCTGCGCGAGTACCAGGACCTGCTCAATGTGAAGATGGCCTT
GGATGTGGAGATCGCCACCTACCGGAAGCTACTGGAGGGCGAGGAGAGCAGGATCAACCTTCCTATCCAG
ACCTTCTCTGCTCTCAACTTCCGAGAAACCAGCCCCGAGCAAAGGGGTTCTGAAGTCCATACCAAAAAGA
CAGTGATGATCAAGACCATTGAGACCCGGGATGGAGAGGTTGTCAGCGAGGCTACACAGCAACAACATGA
AGTGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

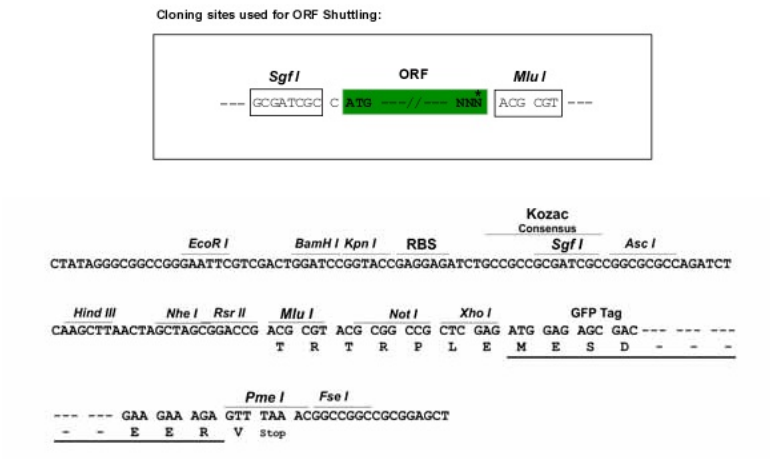
>MG207502 representing NM_010043
Red=Cloning site Green=Tags(s)

MSQAYSSSQRVSSYRRTFGGAPGFSLGSPLSSPVFPRAGFGTKGSSSSMTSRVYQVSRTSGGAGGLGSLR
SSRLGTTRAPSYGAGELLDFSLADAVNQEFLATRTNEKVELQELNDRFANYIEKVRFLEQQNAALAAEVN
RLKGREPTRVAELYEEEMRELRRQVEVLTNQRARVDVERDNLIDDLQRLKAKLQEEIQLREEAENNLAAF
RADVDAATLARIDLERRIESLNEEIAFLKKVHEEEIRELQAQLQEQQVQVEMDMSKPDLTAALRDIRAQY
ETIAAKNISEAEEWYKSKVSDLTQAANKNNDALRQAKQEMMEYRHQIQSYTCEIDALKGTNDSLMRQMRE
LEDRFASEANGYQDNIARLEEEIRHLKDEMARHLREYQDLLNVKMALDVEIATYRKLLEGEESRINLPIQ
TFSALNFRETSPEQRGSEVHTKKTVMIKTIETRDGEVVSEATQQQHEVL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

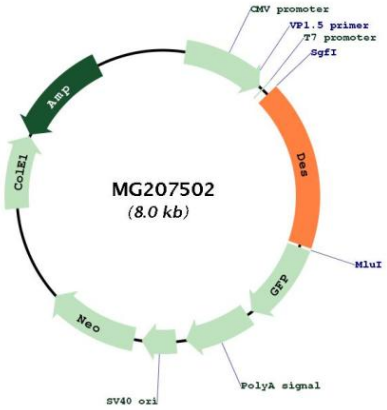
Cloning Scheme:



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:	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]

Product images:



Circular map for MG207502