

Product datasheet for RC215288

Desmuslin (SYNM) (NM_145728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Desmuslin (SYNM) (NM_145728) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Desmuslin
Synonyms:	DMN; SYN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215288 representing NM_145728 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTCCTGGCGGCTGCAGACGGGCCCGAGAAGGCCGAGCTCCAGGAGCTCAACGCCCGGCTCTATG
ACTACGTGTGTCGGGTGCGGGAGCTGGAGCGCGAAAACCTACTCCTGGAGGAGGAGCTGCGCGGCCGGCG
CGGGCGAGAGGGCCTGTGGGCCGAGGGGAGGCCCGCTGCGCCGAGGAGGCGCGCAGCTTGCAGCAGCAG
CTGGACGAGCTGAGCTGGGCCACTGCGCTGGCGGAGGGCGAGCGGGACGCTCTGCGCGCGAGCTGCGGG
AGCTGCAGCGCCTGGATGCGGAGGAGCGCGCCCGCGCGCCCTCGAGGCGCTGCTGGGCCGGCTGACGGCCGAG
GCGCGAGCTGCAGGAGGCGCTGGGCGCGCGCCGCCCTCGAGGCGCTGCTGGGCCGGCTGACGGCCGAG
CGCCGAGGCCCTCGACGCGGCCACGAACGCGACGTGAGGGAGCTGCGCGCGCGCGCCGACGCTTACCA
TGCAATTCGCGCGCCGCGCCACCGGCCCGCGCGCCGCGCCACGCTGCGGGAGGTGCACGACAGCTA
CGCACTGCTGGTGGCCGAGTCTGTGGCGGAGACGGTGCAGCTGTACGAGGACGAGGTGCGCGAGCTGGAG
GAGGCGCTGCGGCGCGGCCAGGAGAGCAGACTCCAGGCGGAGGAAGACGCGGCTGTGCGCGCAGGAGG
CAGAGGCGCTGCGGCGCGAGGCGCTCGGGTTGGAGCAGCTGCGCGCGCGGCTGGAGGACGCGCTGCTGCG
GATGCGCGAGGAGTACGGGATACAGGCCGAGGAGCGGCAGAGAGCGATTGACTGCCTGGAGGATGAGAAG
GCAACCTCACCTTGGCCATGGCTGACTGGCTGCGGGACTATCAGGACCTCCTGCAGGTGAAGACCGGCC
TCAGTCTGGAGGTGGCGACCTACCGGGCCTTATTGGAAGGAGAAAAGTAATCCAGAGATAGTGATCTGGGC
TGAGCACGTTGAAAACATGCCGTCAGAATTCAGAAAATAATCCTATCACTATAACGACTCACTACTACAG
AGGGAAAATGAATGGAATCTATTTTCAAGGCAGAAAGCACCTTTGGCAAGTTTCAATCACAGCTCGGCAC
TGTATTCTAACCTGTGAGGCGACCGTGGATCTCAGACGGGCACATCTATTGGAGGTGATGCCAGAAGAGG
CTTCTTGGGCTCGGGATATTCTTCTCGGCCACTACCCAGCAGGAAAACCTACACGAAAAGCCGTCAGC
AGTCAAACCAACGTCAGAACTTTCTCTCAACCTATGGCCTTTAAGAAATACTGAGGCTCAAGTAAAA
CATTCCCTGACAGACAAAAGCCGGAGATAACAAGGAGGTCCCGTTTACATAGGTGAAGATTCCACAAT
TGCCCGGAGTCTACCGGGATCGCCGAGACAAGGTGGCAGCAGGTGCTTCGAAAAGCACACGGTCAAAT



GAGAGGACCGTCATTCTGGGAAAAGAAAACAGAAGTGAAAGCCACGAGGGAGCAAGAAAGAAAACAGACCAG
 AAACCATCCGAACAAAGCCAGAAGAGAAAATGTTTCGATTCTAAAGAGAAGGCTTCTGAGGAGAGAAAACCT
 AAGATGGGAAGAAATTGACAAAGTTAGATAAGGAAGCGAGACAGAGAGAAAAGCCAGCAGATGAAGGAGAAG
 GCTAAGGAGAAGGACTCACCGAAGGAGAAGAGTGTGCGAGAGAGAGAGGTGCCGATTAGTCTAGAAGTAT
 CCCAGGACAGAAGAGCAGAGGTGTCCCCGAAAGGTTTGCAGACGCCTGTGAAGGATGCTGGTGGTGGGAC
 CGGTAGAGAGGCAGAAGCAAGAGAGCTACGGTTCAGGTTGGGCACCAGTGATGCCACTGGTCTCTGCAA
 GGCGATTCCATGACAGAAAACCGTAGCAGAAAACATCGTTACCAGTATCCTGAAGCAGTTCCTACTCAGTCTC
 CAGAGACAGAAGCATCTGCTGATTCTTTTCCAGACACAAAAGTCACTTAGTGGACAGGAAAGAGCTTCC
 TGGGAAAAGGAAAACAAAGACTGAAATAGTTGTGGAGTCTAAACTGACTGAGGATGTTGATGTTCCGAT
 GAAGCTGGCCTGGACTACCTTTTAAAGCAAGGATATTAAGGAAGTGGGGCTGAAAGGCAAGTCAGCCGAGC
 AGATGATAGGAGACATCAACCTCGGCCTGAAAGGGAGGGAGGGGAGAGCAAAGGTCGTCAACGTGGA
 GATCGTGGAGGAGCCCGTGAATTATGTCAGCGGGGAGAAGCCGGAGGAGTTTTCCGTCCCATTCAAAGTG
 GAGGAGTGAAGATGTGTGCCAGGCCCTGGGGTTGGTTAAGGAGGAGGAAGTTATGGAGAAAGCG
 ATGTCACATTCTCAGTTAATCAGCATCGAAGGACCAAGCAGCCCCAGGAGAACACGACTCACGTGGAAGA
 AGTGACAGAGGCAGGTGATTCAGAGGGCAGCAGAGTTATTTTGTGTCCACTCCAGATGAACACCCCGGG
 GGGCAGCAGAGATGACGGCTCGGTGTACGGGCAGATCCACATCGAGGAGGAATCCACCATCAGGTACT
 CTTGGCAGGATGAAATCGTGCAGGGGACTCGAAGGAGGACACAGAAGGACGGTGCAGTGGGCGAGAAAGT
 TGTGAAGCCCTTGGATGTCCCAGCGCCCTCTCTGGAGGGGACCTGGGTTCCACTCACTGAAAAGAACAA
 GCTAGAAGCGGTGAATTCATGCCGAACCCACAGTCATTGAAAAAGAAATTAATAACCCACGAATTC
 ACACCTCCATGAAGGGCATCTCTCCAAGGAGCCCCGGCAGCAGCTGGTGGAGGTCATCGGGCAGCTGGA
 GGAAACCCCTCCCGAGCGCATGAGGGAGGAGCTGTCCGCCCTCACCAGAGAGGGGAGGGTGGGCCGGGG
 AGCGTTTTCCGTGGATGTCAAGAAGGTCCAGGGTGTGGTGGCAGTTCGGTACCCCTGGTTGCTGAAGTCA
 ACGTCTCAAACTGTGGATGCCGATCGTTAGACCTGGAGGAGCTGAGCAAAGATGAGGCCAGTGAGAT
 GGAGAAGGCTGTGGAGTCCGGTGTTCGGGAGAGCCTGAGCAGGCAACGCAGCCCAGCGCCTGGCAGCCCA
 GATGAGGAAGGTGGAGCGGAGGCCCGGCTGCTGGCATTGCTTTAGGCGTTGGGCCACCCGGGAGCTGT
 ACATCCCTCAGGCGAGAGCGAGGTTGCTGGTGGGGCCTCTCACAGCTCGGGACAGCGCACTCCCCAGGG
 CCCAGTGTCCGCCACTGTGGAGGTGAGCAGCCCCACAGGCTTTGCCAGTCACAGGTGCTGGAGGATGTG
 AGCCAGGCTGCAAGGCACATAAACTCGGCCCTCTGAAGTCTGGAGGACTGAGCGAATGTCATATGAAG
 GACCCACTGCAGAAGTGGTGGAGGTAAGTGCGGGAGGTGACCTAAGTCAGGCAGCGAGCCCAGCCGAGC
 CAGCCGGTCTGTGAGGCATGTCAGCTGGGTCCCGGTCAAAGTCCACTGTCCAGAGAAGTCATCTCCTA
 GGCCTGCCCTGCTGTCCAGAGGCATGGGGCTCGCCAGAACCTGGCCCAGCAGAGTCTTCTGCAGATA
 TGGACGGATCAGGAGGACAGCACATTTGGCTGCAGACAATTTTCATGCTGAAAAGGAGATTATTTTTCA
 GGGCCCAATTTCTGCTGCAGGGAAGGTTGGTGATTATTTTGAACAGAAGAGTCAGTGGGTACCCAGACT
 TCTGTCAGGCAACTCCAGTTAGGCCCTAAAGAAGGTTTCAGTGGGCAATCCAGTTCACAGCTCCACTTT
 CAGACAAGGTGGAGTTGGGTGTCATAGGAGATTCTGTACACATGGAAGGGTTGCCAGGGAGCAGCACATC
 CATCAGGCACATCAGATTGGGCCTCAGAGGCATCAGACCACCCAGCAGATAGTTTACCATGGGCTGGTT
 CCCCAACTGGGGGAATCTGGTGAAGTCAAGAGCACTGTGCACGGAGAGGGCTCAGCAGATGTGCACCAGG
 CCACTCACAGTCATACCTCGGGTAGACAAACCGTTATGACTGAAAAGAGCACCTTCCAAAGTGTGTTTT
 TGAATCTCCCCAGGAGGATAGTGCAGGGGACACATCAGGGGCAGAAATGACATCGGGTGTAGCAGATCC
 TTTAGGCACATTCGACTAGGTCTACAGAAACGGAAACCTCTGAACACATTGCCATCCGTGGACCCGTGT
 CCAGAACATTTGCTTGTGGTTCAGCGGACTCCCCTGAGCTAGGCAAGTTAGCAGACAGCAGCAGAAC
 GCTAAGGCACATTGCACCAGGGCCAAAGAAACTTCGTTTACCTTTAGATGGATGTGAGTAACGTAGAG
 GCGATCCGCAGCCGGACACAGGAAGCGGGAGCTCTCGGTGTGTCTGACCGTGGTTCTGGAGAGACGCGG
 ACAGTAGGAATGACCAGGCAGTTGGTGTGAGCTTAAAGGCCTCTGCTGGGGAAGGAGACCAGGCCACAG
 AGAACAGGGCAAGGAGCAGGCCATGTTTGATAAGAAGGTGCAGCTCCAGAGAATGGTAGACCAAAGGTGCG
 GTGATTTAGATGAAAAGAAAGTTGCCCTCTATCTAGACAATGAGGAGGAGGAGAATGATGGGCATT
 GGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

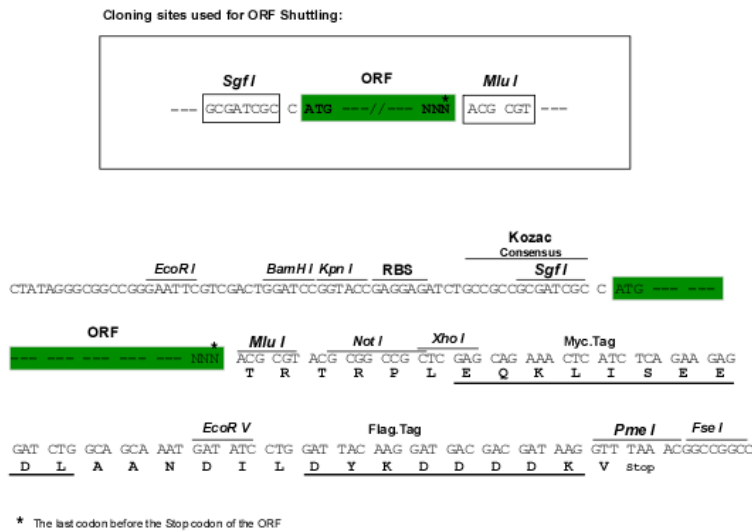
Protein Sequence: >RC215288 representing NM_145728
 Red=Cloning site Green=Tags(s)

MLSWRLQTGPEKAEQLNARLYDYVCRVRELERENLLLEELRGRREGRLWAEQARCAEEARSLRQQ
 LDELSWATALAEGERDALRRELRELQRLDAEERAARGRLDAELGAQQRELQEALGARAAL EALLGRLQAE
 RRGLDAAHERDVRELRARAASLTMHFRARATGPAAPPRLREVHDSYALLVAESWRET VQLYEDEVRELE
 EALRRGQESRLQAEETRLCAQEAELRREALGLEQLRARLEDALLRMREEYGIQAEERQRAIDCLEDEK
 ATLTAMADWLRDYQDLLQVKTGLSLEVATYRALLEGESNPEIWIWAHVENMPSEFRNKSYHYTDSLQ
 RENEWNLFSRQKAPLASFNHSSALYSNLSGHRGSQTGT SIGGDARRGFLGSGYSSATTQQENSYGKAVS
 SQTNVRTFSPTYGLLRNTEAQVKTFPDRPKAGDTREVPVYIGEDSTIARES YRDRRKVAAGASESTRSN
 ERTVILGKKTEVKATREQERNRPETIRTKPEEKMFDSKEKASEERNLRWEELTKLDKEARQRESQMKKEK
 AKEKDSPKEKSVREREVPI SLEVSQDRRAEVSPKGLQTPVKDAGGGTGREAEARELRFRLGTS DATGSLQ
 GDSMTETVAENIVTSILKQFTQSPETEASADSPDTKVTYVDRKELPGERKTKTEI VVESKLTEDVDVSD
 EAGLDYLLSKDIKEVGLKGSAAEQMIGDIINLGLKGREGRAKVVNVEIVEEPVSYVSGEKPEEFVSPFKV
 EEVEDVSPGPWGLVKEEEGYGESDVTFSVNQHRRTKQPQENTTHVEEVTEAGDSEGEQSYFVSTPDEHPG
 GHDRDDGSVYQGQIHIEEESTIRYSWQDEIVQGTRRRRTQKDGAVGEKVVKPLDVPAPSLEGLD GSTHWKEQ
 ARSGEFHAEPTVIEKEIKIPHEFHTSMKGISSKEPRQQLVEVIGQLEETLPERMREEL SALTREGQGGPG
 SVSVDVKKVQGAGGSSVTLVAEVNVSQTV DADRLDLEELSKDEASEMEKAVESV VRESLSRQRSPAPGSP
 DEEGGAEAPAAGIRFRRWATRELYIPSGESEVAGGASHSSGQRT PQGPVSATVEVSSPTGF AQSQVLEDV
 SQAARHIKLGPEVWRTERMSYEGPTAEVVEVSAGGDL SQAASPTGASRSVRHVTLGPGQSPLSREVI FL
 GPAPACPEAWGSPPEGPAESSADMDGSGRHSTFGCRQFHAEKEIIFQGPISAAGKVGDYFATEESVGTQT
 SVRQLQLGPKKEGFSGQIQFTAPLSDKVELGVIGDSVHMEGLPGSSTSIRHISIGPQRHQTTQ QIVYHGLV
 PQLGESGDSESTVHGEGSADVHQATHSHTSGRQTVMTEKSTFQSVVSESPQEDSAGDTS GAEMTSVGSRS
 FRHIRLGPTE TETSEHIAIRGPVSRFTVLAGSADSPELGKLADSSRTLRLHIAPGPKETSF TFFQMDVSNVE
 AIRSRTQEAGALGVSDRGSWRDADSRNDQAVGV SFKASAGEGDQAHREQKQKQAMFDKKVQLQRMVDQRS
 VISDEKKVALLYLDNEEEENDGHWF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

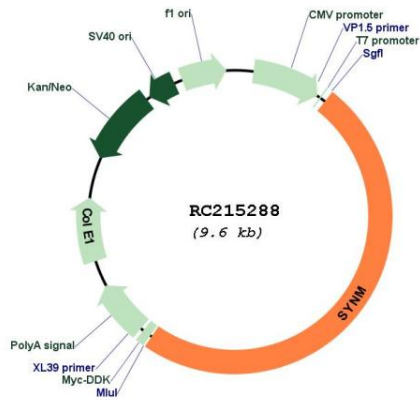


ACCN: NM_145728

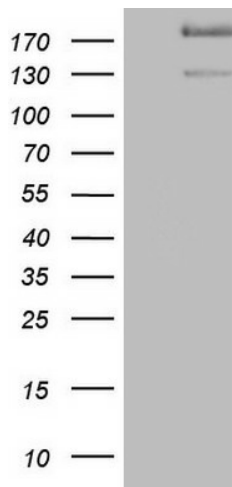
ORF Size: 4695 bp

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:	<ol style="list-style-type: none">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_145728.2
RefSeq Size:	7343 bp
RefSeq ORF:	4698 bp
Locus ID:	23336
UniProt ID:	Q15061
Cytogenetics:	15q26.3
MW:	172.7 kDa
Gene Summary:	The protein encoded by this gene is an intermediate filament (IF) family member. IF proteins are cytoskeletal proteins that confer resistance to mechanical stress and are encoded by a dispersed multigene family. This protein has been found to form a linkage between desmin, which is a subunit of the IF network, and the extracellular matrix, and provides an important structural support in muscle. Two alternatively spliced variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

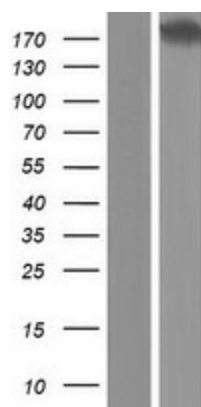
Product images:



Circular map for RC215288



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SYNM (Cat# RC215288, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SYNM (Cat# [TA806550]). Positive lysates [LY407863] (100ug) and [LC407863] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407863]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215288 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).