OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC227835

MKLN1 (NM_001145354) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MKLN1 (NM_001145354) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MKLN1
Synonyms:	TWA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227835 representing NM_001145354
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTGAAAACATGGGGATTGGAATTCGGAACATTTTAGTGGACAAACCAAATGACCAATCTTCAAGAT
GGTCTTCAGAGAGCAACTATCCTCCCCAGTACTTGATTCTAAAGCTCGAAAGGCCTGCTATAGTTCAGAA
TATCACATTTGGAAAATATGAGAAAACTCATGTTTGCAATTTGAAGAAATTTAAAGTCTTTGGTGGAATG
AATGAAGAAAATATGACAGAGCTGTTGTCCAGTGGCTTAAAGAATGATTATAACAAAGAAACATTCACCT
TGAAGCATAAAATTGATGAACAGATGTTCCCTTGTCGATTCATTAAAATAGTTCCACTCTTGTCCTGGGG
ACCCAGCTTTAACTTTAGCATCTGGTATGTTGAACTTAGTGGCATTGATGATCCTGATATAGTACAACCT
TGTCTCAACTGGTATAGCAAGTACCGTGAACAGGAAGCTATTCGCCTTTGCCTAAAACACTTCAGACAAC
ACAACTATACAGAAGCTTTTGAGTCACTGCAAAAGAAAACCAAGATTGCACTGGAACATCCCATGTTAAC
AGATATTCATGACAAGCTGGTGTTGAAGGGTGATTTTGATGCTTGCGAAGAGTTGATTGAAAAGGCTGTA
AATGATGGCTTGTTCAATCAGTATATCAGTCAACAGGAATATAAGCCACGATGGAGTCAAATCATTCCCA
AAAGTACCAAAGGTGATGGGGAAGATAACCGTCCAGGAATGAGAGGAGGCCATCAGATGGTTATTGATGT
TCAAACAGAGACTGTTTATTTGTTTGGTGGCTGGGATGGAACACAAGATCTTGCTGACTTCTGGGCGTAC
AGTGTGAAGGAGAACCAGTGGACATGTATCTCTAGAGACACTGAAAAAGAGAATGGTCCTAGTGCCAGAT
CGTGTCATAAAATGTGCATTGATATTCAACGGAGGCAAATCTACACATTGGGGCGTTACTTGGATTCCTC
TGTGAGGAACAGCAAATCTCTGAAAAGTGACTTCTATCGTTATGACATTGATACAAACACATGGATGTTA
CTAAGTGAGGATACTGCTGCTGATGGAGGGCCGAAATTGGTGTTTGATCATCAGATGTGTATGGACTCAG
AAAAACATATGATCTACACTTTTGGTGGTAGAATTTTGACTTGTAATGGCAGCGTAGATGACAGCAGAGC
CAGTGAACCACAATTCAGTGGCTTGTTTGCTTTCAACTGTCAATGTCAAACCTGGAAACTTCTTCGAGAG
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TTTACACAGAGAGCAACTATTGATCCAGAACTGAATGAAATACACGTCTTATCTGGACTCAGCAAAGATA
AGGAAAAGAGGGAAGAAAATGTTAGAAATTCATTCTGGATTTATGACATTGTGAGGAATAGTTGGTCTTG
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AGGTTTGCCCATCAGCTTGTATACGATGAGCTACACAAGGTTCATTACTTATTTGGTGGGAATCCAGGAA
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TTTACTGAGGCATTGCAAGTACCTCATAAGAAAACACAGGTTTGAAGAAAAGGCCCAAGTGGATCCCCTT
AGTGCTCTGAAATATTTACAAAATGATCTTTATATAACTGTGGATCATTCAGACCCAGAAGAGACAAAAG
AGTTTCAGCTCCTGGCATCAGCTCTATTCAAATCTGGTTCAGATTTTACAGCTCTGGGCTTTTCTGATGT
GGATCACACCTATGCTCAAAGAACTCAGCTCTTTGACACCTTAGTAAATTTCTTTCCTGACAGCATGACT
CCTCCTAAAGGCAACCTGGTAGACCTCATCACACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

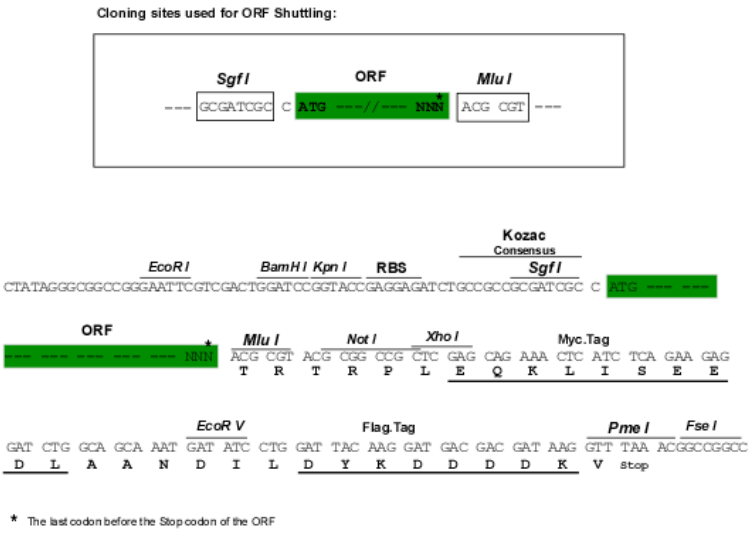
>RC227835 representing NM_001145354
Red=Cloning site Green=Tags(s)

MLENMGIGIRNILVDKPNDQSSRWSSESNYPPQYLILKLERPAIVQNITFGKYEKTHVCNLKKFKVFGGM
NEENMTELLSSGLKNDYNKETFTLKHKIDEQMFPCRFIKIVPLLSWGPSFNFSIWYVELSGIDDPDIVQP
CLNWYSKYREQEAIRLCLKHFRQHNYTEAFESLQKKTKIALEHPMLTDIHDKLVLKGDFDACEELIEKAV
NDGLFNQYISQQEYKPRWSQIIPKSTKGDGEDNRPGMRGGHQMVIDVQTETVYLFGGWDGTQDLADFWAY
SVKENQWTCISRDTEKENGPSARSCHKMCIDIQRRQIYTLGRYLDSSVRNSKSLKSDFYRYDIDTNTWML
LSEDTAADGGPKLVFDHQMCMDSEKHMIYTFGGRILTCNGSVDDSRASEPQFSGLFAFNCQCQTWKLLRE
DSCNAGPEDIQSRIGHCMLFHSKNRCLYVFGGQRSKTYLNDFFSYDVDSDHVDIISDGTKKDSGMVPMTG
FTQRATIDPELNEIHVLSGLSKDKEKREENVRNSFWIYDIVRNSWSCVYKNDQAAKDNPTKSLQEEEPCP
RFAHQLVYDELHKVHYLFGGNPGKSCSPKMRLDDFWSLKLCRPSKDYLLRHCKYLIRKHRFEEKAQVDPL
SALKYLQNDLYITVDHSDPEETKEFQLLASALFKSGSDFTALGFSDVDHTYAQRTQLFDTLVNFFPDSMT
PPKGNLVDLITL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145354

ORF Size: 2136 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_001145354.2

RefSeq ORF: 2139 bp

Locus ID: 4289

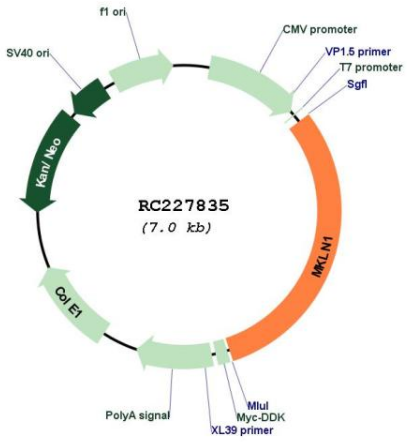
UniProt ID: Q9UL63

Cytogenetics: 7q32.3

MW: 82.2 kDa

Gene Summary: Muskelin is an intracellular protein that acts as a mediator of cell spreading and cytoskeletal responses to the extracellular matrix component thrombospondin I (MIM 188060) (Adams et al., 1998 [PubMed 9724633]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC227835