

Product datasheet for MR225085

Mbnl1 (NM_020007) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mbnl1 (NM_020007) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mbnl1
Synonyms: Mbnl; mKIAA0428
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225085 representing NM_020007
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGTTAGTGTACACCAATTCGGGACACAAAATGGCTAACACTGGAAGTATGTAGAGAGTTTCAAA
 GGGGGACTTGCTCAGCACCAGACACGGAATGTAATTTGCACATCCTTCGAAAAGCTGCCAAGTTGAAAA
 TGGACGAGTAATCGCCTGCTTTGATTCACTGAAAGGTCGTTGCTCCAGAGAGAACTGCAAAATCTTCAT
 CCACCCACACTTAAAAACACAGTTAGAGATAAATGGCGGAATAACTTGATTCAGCAGAAGAATATGG
 CCATGCTGGCCAGCAAATGCAGTTAGCCAATGCCATGATGCCCGGTGCCCGTTGCAGCCCGTGCCAAT
 GTTTTCAGTTGCACCAAGCTTAGCCACCAAGTGCATCAGCAGCCTTAACCCCTACCTGGGCCTGTTTCC
 CCAAGCCTGGTTCAGCAGAGATCTTGCCGACTGCACCAATGTTGGTACGCGGGAATCCTGGAGTCCAG
 TGCCAGCAGCTGCCGAGCTGCTGCACAGAAGTAAATGCGGACAGACAGACTGGAGGTGTGTCGAGAGTA
 CCAGCGTGGCAATTGCAACAGAGGAGAAAAATGACTGTGCGTTTGCTCATCCTGCTGACAGCACAATGATT
 GATACCAATGACAACACAGTCACTGTCTGCATGGATTACATCAAGGGGAGATGCTCTCGGAAAAGTGCA
 AATACTCCATCCTCCCGCACACCTGCAAGCCAAGATCAAGGCTGCCAATACCAGGTCAACCAGGCTGC
 AGCAGCACAGGCTGCAGTACTGCAGCTGCCATGGGAATCCTCAAGCTGTACTTCCCCATTGCCAAAG
 AGGCCTGCTCTTGAAAAACCAACGGTGCCACCGCAGTCTTAACTGGTATTTCCAATACCAACAGG
 CTCTAGCCAACATGCAGTTACAGCAGCATACAGCATTCTCCACCAAGGCTCAATATTGTGCATGACACC
 CGCTACAAGTGTGTTCCCATGTTGCACGGTGCTACGCCAGCCACTGTGTCGCGCAGCAACAACATCTGCC
 ACAAGTGTTCCTTCGCTGCAACAGCCACAGCCAACCAGATACCCATAATATCTGCCGAACATCTGACTA
 GCCACAAGTATGTTACCCAGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225085 representing NM_020007
 Red=Cloning site Green=Tags(s)

MAVSVTPIRDTKWLTLEVCREFQRGTC SRPDTECKFAHPSKSCQVENGRVIACFDLSLKGRC SRENCKYLH
 PPPHLKTQLE INGRNLIQQKNMAMLAQQMQLANAMMPGAPLQPVPMF SVAPSLATSASAAFNPYLG PVS
 PSLVPAEILPTAPMLVTGNPGVPVPA AAAAAA QKLMRTDRLEVCREYQRGNCNRGENDCRFAHPADSTMI
 DTNDNTVTVCMDYIKGRCSREKCKYFHPPAHLQAKIKAAQYQVNQAAAAQAAATAAMGIPQAVLPPLPK
 RPAL EKTNGATAVFNTGIFQYQALANMQLQHTAFLPPGSILCMT PATSVVPMVHGATPATVSAAT TSA
 TSV PFAATATANQIPIISAEHLTSHKYVTQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_020007

ORF Size: 1143 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_020007.4](#), [NP_064391.2](#)

RefSeq Size: 5580 bp

RefSeq ORF: 1146 bp

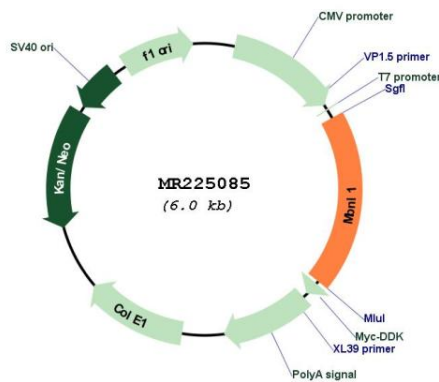
Locus ID: 56758

Cytogenetics: 3 D

MW: 41.3 kDa

Gene Summary: Mediates pre-mRNA alternative splicing regulation. Acts either as activator or repressor of splicing on specific pre-mRNA targets. Inhibits cardiac troponin-T (TNNT2) pre-mRNA exon inclusion but induces insulin receptor (IR) pre-mRNA exon inclusion in muscle. Antagonizes the alternative splicing activity pattern of CELF proteins. Regulates the TNNT2 exon 5 skipping through competition with U2AF2. Inhibits the formation of the spliceosome A complex on intron 4 of TNNT2 pre-mRNA. Binds to the stem-loop structure within the polypyrimidine tract of TNNT2 intron 4 during spliceosome assembly. Binds to the 5'-YGCU(U/G)Y-3'consensus sequence. Binds to the IR RNA. Binds to CUG triplet repeat expansion in myotonic dystrophy muscle cells by sequestering the target RNAs (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225085