

Product datasheet for MR203170

Mbnl1 (BC096600) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mbnl1 (BC096600) 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:	>MR203170 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCATGCTGGCCAGCAAATGCAGTTAGCCAATGCCATGATGCCCGGTGCCCGTTGCAGCCCGTGC
CAATGTTTTAGTTGCACCAAGCTTAGCCACCAGTGCATCAGCAGCCTTTAACCTTACCTGGGGCCTGT
TTCCCAAGCCTGGTCCAGCAGAGATCTTCCGACTGCACCAATGTTGGTCACGGGGAATCCTGGAGTT
CCAGTGCCAGCAGCTGCCGAGCTGCTGCACAGAAGTTAATGCGGACAGACAGACTGGAGGTGTGTCGAG
AGTACCAGCGTGGCAATTGCAACAGAGGAGAAAATGACTGTCCGTTTGTCTATCCTGCTGACAGCACAAT
GATTGATACCAATGACAACAGTCACTGTCTGCATGGATTACATCAAGGGGAGATGCTCTCGGGAAAAG
TGCAAATACTTCCATCCTCCCGCACACCTGCAAGCCAAGATCAAGGCTGCCCAATACCAGGTCAACCAGG
CTGCAGCAGCACAGGCTGCAGCTACTGCAGCTGCCATGGGAATTCCTCAAGCTGTACTTCCCCATTGCC
AAAGAGGCCTGCTCTTGA AAAAACAACGGTGCCACCGCAGTCTTAACTGTTATTTTCCAATACCAA
CAGGCTTAGCCAACATGCAGTTACAGCAGCATACAGCATTCTCCACCAGGCTCAATATTGTGCATGA
CACCCGCTACAAGTGTGATACCCATAATATCTGCCGAACATCTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203170 protein sequence
 Red=Cloning site Green=Tags(s)

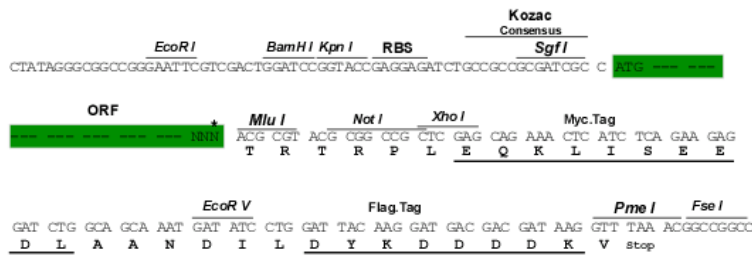
MAMLAQQMQLANAMMPGAPLQPVPVPMF SVAPSLATSASAAFNPYLGPVSPSLVPAEILPTAPMLVTGNPGV
 PVPAAAAAAQKLMRTDRLEVCREYQRGNCRNGENDCRFAHPADSTMIDTNDNTVTVCMDYIKGRCSREK
 CKYFHPPAHLQAKIKAAQYQVNQAAAAQAAATAAMGIPQAVLPPLPKRPALEKTNGATAVFNTGIFQYQ
 QALANMQLQQHTAFLPPGSILCMT PATSV DTHNICRTSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC096600

ORF Size: 747 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: [BC096600](#), [AAH96600](#)

RefSeq Size: 4055 bp

RefSeq ORF: 749 bp

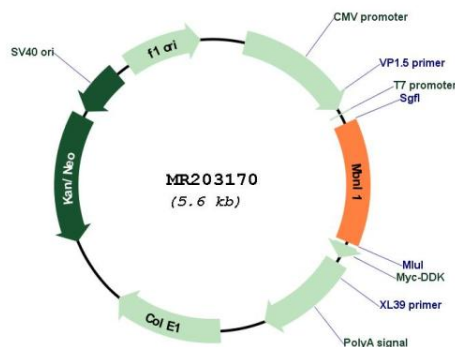
Locus ID: 56758

Cytogenetics: 3 D

MW: 26.4 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 MR203170