

Product datasheet for **MR228808**

Mbnl1 (NM_001253709) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mbnl1 (NM_001253709) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mbnl1
Synonyms: Mbnl; mKIAA0428
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228808 representing NM_001253709
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCATGCTGGCCAGCAAATGCAGTTAGCCAATGCCATGATGCCCGGTGCCCGTTGCAGCCCGTGC
 CAATGTTTTAGTTGCACCAAGCTTAGCCACCAGTGCATCAGCAGCCTTTAACCCCTTACCTGGGGCCTGT
 TTCCCAAGCCTGGTTCCAGCAGAGATCTTCCGACTGCACCAATGTTGGTCACGGGGAATCCTGGAGTT
 CCAGTGCCAGCAGCTGCCGAGCTGCTGCACAGAAGTTAATGCGGACAGACAGACTGGAGGTGTGTGCGAG
 AGTACCAGCGTGGCAATTGCAACAGAGGAGAAAATGACTGTCGGTTTGTCTCATCTGCTGACAGCACAAT
 GATTGATACCAATGACAACACAGTCACTGTCTGCATGGATTACATCAAGGGGAGATGCTCTCGGGAAAAG
 TGCAAATACTTCCATCTCCCGCACACCTGCAAGCCAAGTCAAGGCTGCCCAATACCAGGTCAACCAGG
 CTGCAGCAGCACAGGCTGCAGCTACTGCAGTGCCATGGCTCTAGCCAACATGCAGTTACAGCAGCATA
 AGCATTCTCCACCAGGCTCAATATTGTGCATGACACCCGCTACAAGTGTGTTCCCATGGTGCACGGT
 GCTACGCCAGCCACTGTGTCCGAGCAACAACATCTGCCACAAGTGTCCCTTCGCTGCAACAGCCACAG
 CCAACCAGATACCATAATATCTGCCGAACATCTGACTAGCCACAAGTATGTTACCCAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228808 representing NM_001253709
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MAMLAQQMQLANAMMPGAPLQPVPMF SVAPSLATSASAAFNPYLGPVSPSLVPAEILPTAPMLVTGNPGV
 PVPAAAAAAQKLMRTDRLEVCREYQRGNCNRGENDCRF AHPADSTMIDTNDNTVTVCMDYIKGRCSREK
 CKYFHPPAHLQAKIKAAQYQVNQAAAAQAAATAAMALANMQLQOHTAFLPPGSILCMTPATSVVPMVHG
 ATPATVSAATTSATSVPFAATATANQIPIISAHLTSHKYVTQM

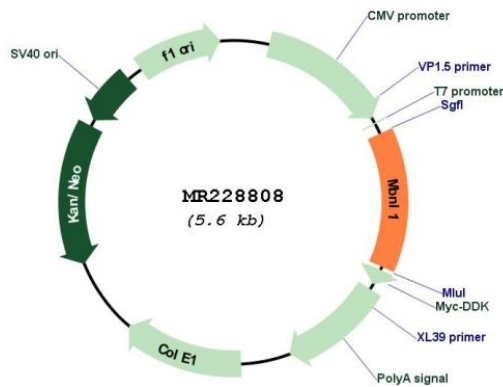
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001253709
ORF Size: 762 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_001253709.2 , NP_001240638.1
RefSeq Size:	4426 bp
RefSeq ORF:	765 bp
Locus ID:	56758
Cytogenetics:	3 D
MW:	27.1 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]