

## Product datasheet for MR228775

### Mbnl1 (NM\_001253710) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mbnl1 (NM\_001253710) 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:** >MR228775 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCATGCTGGCCAGCAAATGCAGTTAGCCAATGCCATGATGCCCGGTGCCCGTTGCAGCCCGTGC  
CAATGTTTTAGTTGCACCAAGCTTAGCCACCAGTGCATCAGCAGCCTTTAACCTTACCTGGGGCCTGT  
TTCCCAAGCCTGGTCCAGCAGAGATCTGCCGACTGCACCAATGTTGGTCACGGGGAATCCTGGAGTT  
CCAGTGCCAGCAGCTGCCGAGCTGCTGCACAGAAGTTAATGCGGACAGACAGACTGGAGGTGTGTCGAG  
AGTACCAGCGTGGCAATTGCAACAGAGGAGAAAATGACTGTGCGTTTGTCTCATCTGCTGACAGCACAAT  
GATTGATACCAATGACAACAGTCACTGTCTGCATGGATTACATCAAGGGGAGATGCTCTCGGGAAAAG  
TGCAAATACTTCCATCCTCCCGCACACCTGCAAGCCAAGATCAAGGCTGCCCAATACCAGGTCAACCAGG  
CTGCAGCAGCACAGGCTGCAGCTACTGCAGCTGCCATGGGAATTCCTCAAGCTGTACTTCCCCATTGCC  
AAAGAGGCCTGCTCTTGAAAAACCAACGGTGCCACCGCAGTCTTAACTGTTATTTTCCAATACCAA  
CAGGCTTAGCCAACATGCAGTTACAGCAGCATACAGCATTCTCCCACCAGGCTCAATATTGTGCATGA  
CACCCGCTACAAGTGTGATACCCATAATATCTGCCGAACATCTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228775 protein sequence  
 Red=Cloning site Green=Tags(s)

MAMLAQQMQLANAMMPGAPLQPVPVPMF SVAPSLATSASAAFNPYLGPVSPSLVPAEILPTAPMLVTGNPGV  
 PVPAAAAAAQKLMRTDRLEVCREYQRGNCNRGENDCRF AHPADSTMIDTNDNTVTVCMDYIKGRCSREK  
 CKYFHPPAHLQAKIKAAQYQVNQAAAAQAAATAAMGIPQAVLPPLPKRPALEKTNGATAVFNTGIFQYQ  
 QALANMQLQQHTAFLPPGSILCMT PATSV DTHNICRTSD

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\_001253710

**ORF Size:** 750 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\\_001253710.2](#), [NP\\_001240639.1](#)

**RefSeq Size:** 4436 bp

**RefSeq ORF:** 750 bp

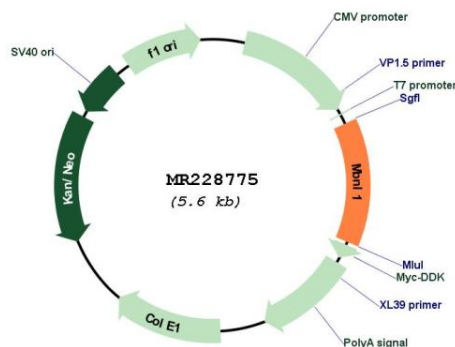
**Locus ID:** 56758

**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 MR228775