

## Product datasheet for **MC226603**

### **Mbnl1 (NM\_001253711) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mbnl1 (NM\_001253711) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mbnl1  
**Synonyms:** Mbnl; mKIAA0428  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226603 representing NM\_001253711  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGGCCATGCTGGCCAGCAAATGCAGTTAGCCAATGCCATGATGCCCGGTGCCCGTTGCAGCCCGTGC  
CAATGTTTTAGTTGCACCAAGCTTAGCCACCAGTGCATCAGCAGCCTTTAACCTTACCTGGGGCCTGT  
TTCCCAAGCCTGGTTCCAGCAGAGATCTTCCGACTGCACCAATGTTGGTCACGGGGAATCCTGGAGTT  
CCAGTGCCAGCAGCTGCCGAGCTGCTGCACAGAAGTTAATGCGGACAGACAGACTGGAGGTGTGTGCGAG  
AGTACCAGCGTGGCAATTGCAACAGAGGAGAAAATGACTGTCGGTTTGTCTCATCTGCTGACAGCACAAT  
GATTGATACCAATGACAACACAGTCACTGTCTGCATGGATTACATCAAGGGGAGATGCTCTCGGGAAAAG  
TGCAAAATACTTCCATCTCCCGCACACCTGCAAGCCAAGATCAAGGCTGCCCAATACCAGGTCAACCAGG  
CTGCAGCAGCACAGGCTGCAGCTACTGCAGTGCCATGACTCAGTCGGCTGTCAAATCACTGAAGCGACC  
CCTCGAGGCAACCTTTGACCTGGGAATTCCTCAAGCTGTACTTCCCCATTGCCAAAGAGGCTGTCTTT  
GAAAAAACCAACGGTGCCACCGCAGTCTTAACACTGGTATTTTCCAATACCAACAGGCTCTAGCCAACA  
TGCAGTTACAGCAGCATACAGCATTTCTCCACCAGATACCCATAATATCTGCCGAACATCTGAC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001253711  
**Insert Size:** 768 bp



<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001253711.2, NP_001240640.1</u>
<b>RefSeq Size:</b>	4547 bp
<b>RefSeq ORF:</b>	768 bp
<b>Locus ID:</b>	56758
<b>Cytogenetics:</b>	3 D
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) lacks the exon containing the start codon, contains an alternate in-frame exon, and lacks an alternate segment compared to variant 1, that causes a frameshift. The resulting isoform (5) is shorter at the N-terminus, contains an alternate internal segment, and has a shorter and distinct C-terminus compared to isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>