

## Product datasheet for **SC113012**

### MBNL1 (NM\_021038) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MBNL1 (NM_021038) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBNL1
Synonyms:	EXP; MBNL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_021038, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGTTAGTGTACACCAATTCGGGACACAAAATGGCTAACACTGGAAGTATGTAGAGAGTTCCAGA
GGGGGACTTGCTCACGGCCAGACACGGAATGTAAATTTGCACATCCTTCGAAAAGCTGCCAAGTTGAAAA
TGGACGAGTAATCGCCTGCTTTGATTTCATTGAAAGGCCGTTGCTCCAGGGAGAAGTGCAAATATCTTCAT
CCACCCCCACATTTAAAAACGCAGTTGGAGATAAATGGACGCAATAACTTGATTCAGCAGAAGAACATGG
CCATGTTGGCCCAGCAAATGCAACTAGCCAATGCCATGATGCCTGGTGCCCATTAACAACCCGTGCCAAT
GTTTTTCAGTTGCACCAAGCTTAGCCACCAATGCATCAGCAGCCGCTTTAATCCCTATCTGGGACCTGTT
TCTCCAAGCCTGGTCCCAGCAGAGATCTTGCCGACTGCACCAATGTTGGTTACAGGGAATCCGGGTGCC
CTGTACCTGCAGCTGCTGCAGCTGCTGCACAGAAATTAATGCGAACAGACAGACTTGAGGTATGTCGAGA
GTACCAACGTGGCAATTGCAACCGAGGAGAAAAATGATTGTCGGTTTGCTCATCCTGCTGACAGCACAATG
ATTGACACCAATGACAACACAGTCACTGTGTGTATGGATTACATCAAAGGGAGATGCTCTCGGAAAAAGT
GCAAATACTTTTCATCCCCCTGCACATTTGCAAGCCAAGATCAAGGCTGCCAATACCAGGTCAACCAGGC
TGCAGCTGCACAGGCTGCAGCCACCGCAGCTGCCATGGGAATTCCTCAAGCTGTACTTCCCCATTACCA
AAGAGGCCTGCTCTTGAAAAACCAACGGTGCCACCGCAGTCTTAACACTGGTATTTTCCAATACCAAC
AGGCTCTAGCCAACATGCAGTTACAACAGCATAACAGCATTTCTCCACCAGGCTCAATATTGTGCATGAC
ACCCGCTACAAGTGTGTTCCCATGGTGCACGGTGCTACGCCAGCCTGTGTCCGCAGCAACAACATCT
GCCACAAGTGTTCCTTCGCTGCAACAGCCACAGCCAACCCAGATACCCATAATATCTGCCGAACATCTGA
CTAGCCACAAGTATGTTACCCAGATGTAG

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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021038 unedited  
 NGGTCAAATTGATACACTATTAGGCGCCGATTGCGCGATCTGCCGAAATAAGAGGAAA  
 AAAAAATCATTTTCTCGATTTTGTCTCTAACTGCTACTTCTGTCTATGCCAACTAATCA  
 ATACCGATTGCACCACCAAACTCCATTGCAAATTCAGCTGTGAGGAGATTCCCTTTCAGA  
 CAACTTTGCTGAAAGCAGCTTGGAAATTCGGTGTGGAAGGGTCTGCCACGTTTTTCATGCT  
 TGCATTTTGGGCTCCAAATTGGCACTGGGAAGGGTACTGAGAGCACAAGGCTGATACC  
 AGGCCCTACTTTTAAACGTTTCACTACTTACAATCCTAGTATTTCTCTAAAAACAAAAC  
 CTCTTTGAATTAACAGTTTCATGCTGTGAATTTCTAGTGGGAGATCTTTTCTTGATATT  
 GACGACACAATTTTCCATGTACTTTTAAAGCAGGGAGTGGGAAAAAGATTTTGGGGGA  
 CATTCTCATCATCAGTTCAGCTTTTTTTTTTGGTTGTTGCTCTTTTTGGGGGGTTGG  
 GTTTGTTGGTTTCACTGAAACATTTAACTACCTGTAAAATCTAAACATGGCTGTTAGTGT  
 CACACCAATTCGGGACACAAAATGGCTAACACTGGAAATGTAGAGAGTTCAGAGGGG  
 GACTTGCTCACGGCCAGACACGGAATGTAATTTGCACATCCTTCGAAAAGCTGCCAAGT  
 TGAATGAGCAGTAATCGCTGCTTTGATTGTTGAAAGGCCGTTGCTCCAGGGAGAA  
 CTGCAAAATATCTTCATCCACCCACATTTAANAACGCAGTTGGAGATAAATGGACGCC  
 TAACTTGATTGACGAGAAGACATGGCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_021038 unedited  
 GGGGGGGTTGAAATTTTAAACATGCATAGTTTTGAAAAAGTAAGGAATATCTGATCCATG  
 ATTTACCTTAATGGTAAAAGTACCTGCTATTTTTGGTAATGATCTTCAGGCAAATTTGG  
 CCCCATGGAGTTTTTGTGAGTATGAGGGTTTAAAAGGATGGCGTATCTTCCAGCTGAA  
 AAAAACTCGCAAACTACAAGTGTCCACAAAAAAGCAAAGCAACATGTTTGAAGGGGT  
 ATGGAGTGCTAACTCTGTGCCACTTTTGAAGCAATTTTGTCTGAGTCTGTCATTGTATTA  
 CCCTTAACAAAACCTCTTGTAAATATAGACGTTTTTATTCAAAATAAAATCTTACTATTA  
 TACAGGTTTTCTCTTTTTGACTATATACAGAAGTGCAAAAAGTCAACCTTCTCCCTAAAC  
 GTTCCAACATGCTAAATTCAGCATAATCAACCCTCAAGAGTTTGCACACACGCTATAAT  
 TTTTATTACGTAACCTTTGAGTATTTGGATTATCAACAAAAAGTCCCTTGTCTATTTAT  
 TGATTATGCAGCTTATTTATAACAAGGCCTGATACTCAGGGATTTCAAAAATATTAACA  
 ATATTTAACATTTGAAATGGATACAGTAAAAATAAATTTTATTCTAATATCTAGGATC  
 TAGATCTTCTTATAACTAATTACAACAAAAATAATCATCAAAATATTACTCAAATT  
 GTCTGCCAGGAATTGGNNGCGATAGCAACCAACCTTAACCTTCTTACTTACTTACTTACTT  
 ATATATTNTATAAAGATATCCATATAAAGAACCTTTTGTCTTTTAAATGAAACCTACA  
 CAAGAATAACAGGGACTGGCATNCTTTAACCTGAAATATAAAATCAAAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021038

**Insert Size:**

4570 bp

**OTI Disclaimer:**

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).

**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\\_021038.3](#), [NP\\_066368.2](#)

**RefSeq Size:** 6404 bp

**RefSeq ORF:** 1149 bp

**Locus ID:** 4154

**UniProt ID:** [Q9NR56](#)

**Cytogenetics:** 3q25.1-q25.2

**Domains:** zf-CCCH

**Gene Summary:** This gene encodes a member of the muscleblind protein family which was initially described in *Drosophila melanogaster*. The encoded protein is a C3H-type zinc finger protein that modulates alternative splicing of pre-mRNAs. Muscleblind proteins bind specifically to expanded dsCUG RNA but not to normal size CUG repeats and may thereby play a role in the pathophysiology of myotonic dystrophy. Mice lacking this gene exhibited muscle abnormalities and cataracts. Several alternatively spliced transcript variants have been described but the full-length natures of only some have been determined. The different isoforms are thought to have different binding specificities and/or splicing activities. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (1) represents the longest transcript and it encodes isoform a. Other names for this isoform are EXP41 and MBNL1subscript41.