

Product datasheet for **SC110127**

MBNL2 (NM_144778) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	MBNL2
Synonyms:	MBLL; MBLL39; PRO2032
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_144778, the custom clone sequence may differ by one or more nucleotides

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ATGGCTTTGAACGTTGCCCCAGTCAGAGATACAAAATGGCTGACATTAGAAGTCTGCAGACAGTTTCAAA
GAGGAACATGCTCACGCTCTGATGAAGAATGCAAATTTGCTCATCCCCCAAAAGTTGTCAGGTTGAAAA
TGGAAGAGTAATTGCCTGCTTTGATTCCCTAAAGGGCCGTTGTTTCGAGAGAGAACTGCAAGTATCTTCAC
CCTCCGACACACTTAAAAACTCAACTAGAAATTAATGGAAGGAACAATTTGATTTCAGCAAAAACTGCAG
CAGCAATGCTTGCCCGAGCAGATGCAATTTATGTTCCAGGAACACCACTTCATCCAGTGCCCACTTTCCC
TGTTAGGTCCCGGATAGGGACAAATACGGCTATTAGCTTTGCTCCTTACCTAGCACCTGTAACCCCTGGA
GTTGGGTTGGTCCCAACGAAATTCTGCCACCACGCCTGTTATTGTTCCCGGAAGTCCACCGGTCACTG
TCCCGGGCTCAACTGCAACTCAGAACTTCTCAGGACTGACAACTGGAGGTATGCAGGGAGTTCCAGCG
AGGAACTGTGCCCGGGAGAGACCGACTGCCGCTTTGCACACCCCGCAGACAGCACCATGATCGACACA
AGTGACAACACCGTAACCGTTTGTATGGATTACATAAAGGGCGTTGCATGAGGGAGAAATGCAATATT
TTCACCTCTGACACTTGACAGGCCAAAATCAAAGCTGCGCAGCACCAGCCAACCAAGCTGCGGTGGC
CGCCCAGGCAGCCGCGCCGCGGCCACAGTCATGGCCTTTCCCTTGGTGTCTTTCATCTTTACCAAAG
AGACAAGCACTTGAAAAAGCAATGGTACCAGCGCGGTCTTAACCCAGCGCTTGCACCTACCAGCAGG
CTCTCACCAGCGCACAGTTGCAGCAACACGCCGCTTATTCCAACAGGGTCAGTTTGTGCATGACACC
CGCTACCAGTATTGTACCATGATGCACAGCGCTACGTCCGCCACTGTCTCTGCAGCAACAACCTCTGCA
ACAAGTGTCCTTCGCAGCAACAGCCACAGCCAATCAGATAATTCTGAAATAA

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5' Read Nucleotide
Sequence:

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>OriGene 5' read for NM_144778 unedited
ATTTGTATACGACTCACTATAGGGCGGCCGCAATTCGCACGAGGTTACAGCAACAGAGT
TTAGACTGTCTTTGCTTCATCATCTGAAGGTAATTTTCCAGATACGGCAGACGGCTTT
CAGAGTACAATAAACAGGGAATGAGAACTATTTACATGGAAGTTTCTTTCTCATGATGCG
GTGGAGAAGCCTCGGCCACTTGTTCTGCCAGATGTTCTGGGGTTACTGTAAATGGGAA
GGACAGGCAGAGCTAAACAAGGTTTATCATTTAAAAGTGCCTGTGTGAAGTCACTTTTGC
TGGAAAAGTGCAGCTTGGGAGCTTTCTTTGTATTCACATCCCACTCTTCTGTCAAGTACA
CTTTACCCTGACCTTATGAGTGGATGAAGATACCTCAGTTGTCTGACTTTGCCAATTGCT
TAATTTCAGAATTTAAAAGGGGAAAGAAAAACATCCTGCTAAAATATGAACATCTGAGT
GTCTTATTTTCCAACATCGTCAATAGCTGTGAGCGTCAGCATTAAATATTCTCCCAAGGA
GTGCCATGATATTGAAGTCACTTTATTAATAACAGCTGTATCTGCAAAACAGTCAAGAGA
CTCGGACGTTGAAAGCCAGAGATGACACTGAGCATGCTTTTATTGCGGCCTACCATCTTT
AAGTGGGACATATTGATTGATGAGTGATTGCTGTCCATACACTCTCTCATCATCTGTT
CCTTGGATTGGACTTCACTAAGCAATTTTCACTCACCTTCAGACTTACATGTGGGAGTT
TTCACAACAGTAGTTTTGGGATCATTAGAACTGGNATTGANTTCATCATTTAACAGAAAC
AAACAGCCCANATTACTTTATCACCATGCCTTTGAACGTTGCCCCAGTCAGAGATCAN
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3' Read Nucleotide
Sequence:

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>OriGene 3' read for NM_144778 unedited
NNNNTTTAACTCATGNACCCGCGGCCGCTTTTCTANATCGAGTTTTTTTTTTTTTTTTT
AAATGCTTCTTTTATTTTATTGTTGTACATTGGGTGAGTGAATGAATATTACAACCAA
AACATAGTATTGATACAAATTAGACTCCTGTTTACACTGTAAGGTAATGAATGAGGGAAT
TCTTTAAGTGTTACAGAAAGATTTAGTAGAAATGTTACCAGTGGTATGGCTGAAAGAATA
TTTCGGTGAAGTGCTGTATATCCTGAAAACCAAGAGTGAATGTAGTTCCTATACAAGT
GGAGAGTTAGTCTTAACTACAGTATTTGTTGAACTGATATCTTCATGTCTTGGATATT
GGTGATTTTTGTTTTTAAATTAACAAAGCATTAAAGATTTATTTCATCATAGTCAGACTT
CTGAATATAAACAACCTTTTGGCAAATAATATTATACAGAAAAATAGTTTTAGATCCTC
TCAATCCCAGAATTATTCTATAAAATTACATTATAAATAAATAAAGCAAAATCTGTT
GTACATATATTTGTACATCTATGCATTTGCCTTGCCCTCCTCTTATTGTAATGGCATAT
TTATGACTCTTTGCATATTGTAATCACAATTCTGGAATAATGGATATCATAGTAAAAAATA
CAGTCTTCTATATTTGCTTGGGGTTACAGGTGATGTTTTTGTGCTCCATTATTAAGGG
CTGAAATAGTTGTGTGCTAATAATTTTAAAAATCAAAATCATGAAACANAAGAAAAA
GAAGACATGGTTCACAATTAATCTACAAAATTTTCATGATTCCATAATNTACCTTTANA
ATGATACTATGTTTTTCATGAGTTAAATGAATTACAAGAAAAACGGAAGAAACAG
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Restriction Sites:

NotI-NotI

ACCN:

NM_144778

Insert Size:

4530 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_144778.2, NP_659002.1</u>
RefSeq Size:	4731 bp
RefSeq ORF:	1104 bp
Locus ID:	10150
UniProt ID:	<u>Q5VZF2</u>
Cytogenetics:	13q32.1
Domains:	zf-CCCH
Protein Families:	Transcription Factors
Gene Summary:	This gene is a member of the muscleblind protein family which was initially described in <i>Drosophila melanogaster</i>. This gene encodes 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. Several alternatively spliced transcript variants have been described but the full-length nature of only some have been determined. [provided by RefSeq, Mar 2012] Transcript Variant: This variant (1) encodes the longest isoform (1).