

## Product datasheet for **SC308428**

### MBNL1 (NM\_207297) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MBNL1 (NM_207297) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBNL1
Synonyms:	EXP; MBNL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308428 representing NM_207297. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTGTAGTGTACACCAATTGGGACACAAAATGGCTAACACTGGAAGTATGTAGAGAGTTCCAG
AGGGGGACTTGCTCAGGCCAGACACGGAATGTAATTTGCACATCCTTCGAAAAGCTGCCAAGTTGAA
AATGGACGAGTAATCGCCTGCTTTGATTGAAAGGCCGTTGCTCCAGGGAGAAGCTGCAAAATATCTT
CATCCACCCACATTTAAAAACGCAGTTGGAGATAAATGGACGCAATAACTTGATTGAGCAGAAGAAC
ATGGCCATGTTGGCCAGCAAATGCAACTAGCCAATGCCATGATGCTGGTGGCCATTACAACCCGTG
CCAATGTTTTAGTTGCACCAAGCTTAGCCACCAATGCATCAGCAGCCGCTTTAATCCCTATCTGGGA
CCTGTTTTCTCAAGCCTGGTCCCGGCAGAGATCTTGCCGACTGCACCAATGTTGGTTACAGGGAATCCG
GGTGTCCCTGTACCTGCAGCTGCTGCAGCTGCTGCACAGAAATTAATGCGAACAGACAGACTTGAGGTA
TGTGAGAGTACCAACGTGGCAATTGCAACCGAGGAGAAAATGATTGTCGGTTTGCTCATCTGCTGAC
AGCACAATGATTGACACCAATGACAACACAGTCACTGTGTGATGATTACATCAAAGGGAGATGCTCT
CGGGAAAAGTGCAAACTTTTATCCCCCTGCACATTTGCAAGCCAAGATCAAGGCTGCCAATACCAG
GTCAACCAGGCTGCAGCTGCACAGGCTGCAGCCACCGCAGCTGCCATGGGAATTCCTCAAGCTGACTT
CCCCATTACCAAAGAGGCTGCTTTGAAAAAACCAACGGTGCCACCGCAGCTTTAACTGTTGATT
TTCCAATACCAAAGAGGCTGCTTTGAAAAAACCAACGGTGCCACCGCAGCTTTAACTGTTGATT
ATATTGTGATGACACCCGCTACAAGTGTGATACCCATAATATCTGCCGAACATCTGACTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	SgfI-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_207297



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<b>Insert Size:</b>	1029 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>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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><a href="#">NM_207297.1</a></u>
<b>RefSeq Size:</b>	5277 bp
<b>RefSeq ORF:</b>	1029 bp
<b>Locus ID:</b>	4154
<b>UniProt ID:</b>	<u><a href="#">Q9NR56</a></u>
<b>Cytogenetics:</b>	3q25.1-q25.2
<b>MW:</b>	37.1 kDa

**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 (7) lacks an alternate exon in the 3' coding region, resulting in a frameshift compared to variant 1. The encoded isoform (g) has a shorter and distinct C-terminus compared to isoform a. Other names for this isoform are EXP41S and MBNL1subscript41S. 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.