

Product datasheet for RC208112

MBNL1 (NM_021038) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MBNL1 (NM_021038) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MBNL1
Synonyms:	EXP; MBNL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208112 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTTAGTGTACACCAATTCGGGACACAAAATGGCTAACACTGGAAGTATGTAGAGAGTTCCAGA
GGGGGACTTGCTCACGGCCAGACACGGAATGTAATTTGCACATCCTTCGAAAAGCTGCCAAGTTGAAA
TGGACGAGTAATCGCCTGCTTTGATTTCATTGAAAGGCCGTTGCTCCAGGGAGAACTGCAATATCTTCAT
CCACCCACATTTAAAAACGCAGTTGGAGATAAATGGACGCAATAACTTGATTCAGCAGAAGAATATG
CCATGTTGGCCAGCAAATGCAACTAGCCAATGCCATGATGCCTGGTGCCCATACAACCCGTGCCAAT
GTTTTAGTTGCACCAAGCTTAGCCACCAATGCATCAGCAGCCGCTTTAATCCCTATCTGGGACCTGTT
TCTCCAAGCCTGGTCCCGCAGAGATCTTGCCGACTGCACCAATGTTGGTTACAGGGAATCCGGGTGCC
CTGTACCTGCAGCTGCTGCAGCTGCTGCACAGAAATTAATGCGAACAGACAGACTTGAGGTATGTCGAGA
GTACCAACGTGGCAATTGCAACCGAGGAGAAAAATGATTGTCGGTTGCTCATCCTGCTGACAGCACAATG
ATTGACACCAATGACAACACAGTCACTGTGTATGGATTACATCAAAGGGAGATGCTCTCGGAAAAAGT
GCAAATACTTTTCATCCCCCTGCATTTGCAAGCCAAGATCAAGGCTGCCAATACCAGGTCAACCCAGGC
TGCAGCTGCACAGGCTGCAGCCACCGCAGCTGCCATGGGAATTCCTCAAGCTGTACTTCCCCATTACCA
AAGAGGCTGCTCTTTGAAAAACCAACGGTGCCACCGCAGTCTTTAACACTGGTATTTTCCAATACCAAC
AGGCTCTAGCCAAACATGCAGTTACAACAGCATAACAGCTTTCTCCACCAGGCTCAATATTGTGCATGAC
ACCCGCTACAAGTGTGTTCCCATGGTGCACGGTGTACGCCAGCCACTGTGCCGAGCAACAACATCT
GCCACAAGTGTCCCTTCGCTGCAACAGCCACAGCCAACCCAGATACCCATAATATCTGCCGAACATCTGA
CTAGCCACAAGTATGTTACCCAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208112 protein sequence
Red=Cloning site Green=Tags(s)

MAVSVTPIRDTKWL TLEVCREFQRGTC SRPDTECKFAHPSKSCQVENGRVIACFDSLKGRCSRENCKYLH
 PPPHLKTQLE INGRNLIQQKNMAMLAQQMQLANAMMPGAPLQPVPMF SVAPSLATNASAAAFNPYLG PV
 SPSLVPAEILPTAPMLVTGNPGVPV PAAAAAAQKLMRTDRLEVCREYQRGNCNRGENDCRFAHPADSTM
 IDTNDNTVTVCMDYIKGRCSREKCKYFHPPAHLQAKIKAAQYQVNQAAAAQAAATAAMGIPQAVLPPLP
 KRPALEKTNGATAVFNTGIFQYQALANMQLQHTAFLPPGSILCMT PATSVVPMVHGATPATVSAATTS
 ATSVPFAATATANQIPIISA EHLTSHKYVTQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6088_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_021038

ORF Size: 1146 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_021038.5](#)

RefSeq Size: 6404 bp

RefSeq ORF: 1149 bp

Locus ID: 4154

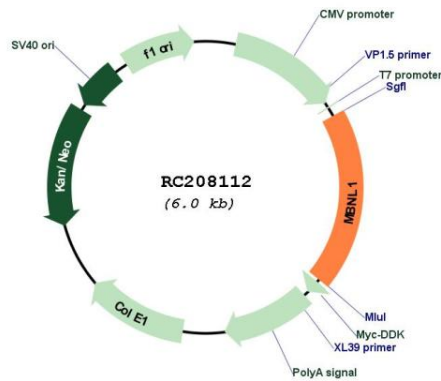
UniProt ID: [Q9NR56](#)

Cytogenetics: 3q25.1-q25.2

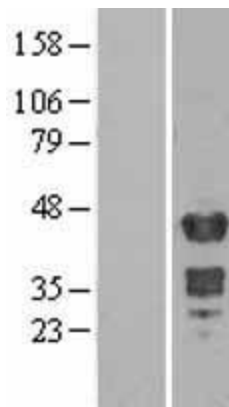
Domains: zf-CCCH

MW: 41 kDa

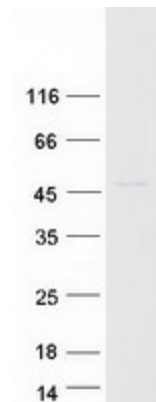
Gene Summary: This gene encodes a member of the muscleblind protein family which was initially described in *Drosophila melanogaster*. The encoded protein is a C3H-type zinc finger protein that modulates alternative splicing of pre-mRNAs. Muscleblind proteins bind specifically to expanded dsCUG RNA but 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]

Product images:


Circular map for RC208112



Western blot validation of overexpression lysate (Cat# [LY402822]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208112 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MBNL1 protein (Cat# [TP308112]). The protein was produced from HEK293T cells transfected with MBNL1 cDNA clone (Cat# RC208112) using MegaTran 2.0 (Cat# [TT210002]).