

Product datasheet for **RG208112**

MBNL1 (NM_021038) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MBNL1 (NM_021038) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MBNL1 |
| Synonyms: | EXP; MBNL |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG208112 representing NM_021038 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTTAGTGTACACCAATTCGGGACACAAAATGGCTAACACTGGAAGTATGTAGAGAGTTCCAGA
GGGGGACTTGCTCACGGCCAGACACGGAATGTAATTTGCACATCCTTCGAAAAGCTGCCAAGTTGAAAA
TGGACGAGTAATCGCCTGCTTTGATTTCATTGAAAGGCCGTTGCTCCAGGGAGAACTGCAAAATATCTTCAT
CCACCCACATTTAAAAACGCAGTTGGAGATAAATGGACGCAATAACTTGATTCAGCAGAAGAATATG
CCATGTTGGCCAGCAAATGCAACTAGCCAATGCCATGATGCCTGGTGGCCCATACAACCCGTGCCAAT
GTTTTAGTTGCACCAAGCTTAGCCACCAATGCATCAGCAGCCGCTTTAATCCCTATCTGGGACCTGTT
TCTCCAAGCCTGGTCCCGGCAGAGATCTTGCCGACTGCACCAATGTTGGTTACAGGGAATCCGGGTGCC
CTGTACCTGCAGCTGCTGCAGCTGCTGCACAGAAATTAATGCGAACAGACAGACTTGAGGTATGTCGAGA
GTACCAACGTGGCAATTGCAACCGAGGAGAAAAATGATTGTCGGTTTGTCTCATCTGCTGCAGCACAATG
ATTGACACCAATGACAACACAGTCACTGTGTATGGATTACATCAAAGGGAGATGCTCTCGGAAAAAGT
GCAAATACTTTTCATCCCCCTGCATTTGCAAGCCAAGATCAAGGCTGCCAATACCAGGTCAACCCAGGC
TGCAGCTGCACAGGCTGCAGCCACCGCAGCTGCCATGGGAATTCCTCAAGCTGTACTTCCCCATTACCA
AAGAGGCTGCTCTTTGAAAAACCAACGGTGCCACCGCAGTCTTTAACACTGGTATTTTCCAATACCAAC
AGGCTCTAGCCAACATGCAGTTACAACAGCATAACAGCATTCTCCACCGGCTCAATATTGTGCATGAC
ACCCGCTACAAGTGTGTTCCCATGGTGCACGGTGTACGCCAGCCACTGTGCCGAGCAACAACATCT
GCCACAAGTGTCCCTTCGCTGCAACAGCCACAGCCAACAGATAACCATAATATCTGCCGAACATCTGA
CTAGCCACAAGTATGTTACCCAGATG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208112 representing NM_021038
 Red=Cloning site Green=Tags(s)

MAVSVTPIRDTKWL TLEVCREFQRTGCSRPDTECKFAHPSKSCQVENGRVIACFDSLKGRCsRENCKYLH
 PPPHLKTQLEINGRNLIQQKNMAMLAQQMQLANAMMPGAPLQPVPMF SVAPSLATNASAAAFNPYLGPV
 SPSLVPAEILPTAPMLVTGNPGVPVPAAAAAAAAAQKLMRTDRLEVCREYQRGNCNRGENDCRFAHPADSTM
 IDTNDNTVTVCMDYIKGRCSREKCKYFHPPAHLQAKIKAAQYQVNQAAAAQAAATAAAMGIPQAVLPPLP
 KRPALEKTNGATAVFNTGIFQYQALANMQLQHTAFLPPGSILCMT PATSVVPMVHGATPATVSAATTS
 ATSVPF AATATANQIPIISA EHLTSHKYVTQM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

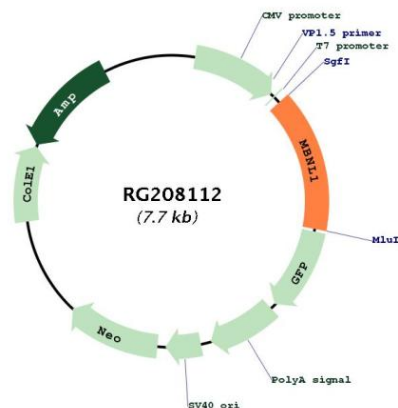
UniProt ID: [Q9NR56](#)

Cytogenetics: 3q25.1-q25.2

Domains: zf-CCCH

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 RG208112