

# Recombinant Human MBNL1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MBNL1-6452H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	MBNL1 MS Standard C13 and N15-labeled recombinant protein (NP_997176) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	This gene encodes a member of the muscleblind protein family which was initially described in <i>Drosophila melanogaster</i> . 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.
<b>Molecular Mass</b>	41.6 kDa
<b>AA Sequence</b>	MAVSVTPIRDTKWLTLEVCREFQRGTCSRPDTECKFAHPSKSCQVENGRVIACFDS LKGRCsRENCKYLHPPPHLKTQLEINGRNLIQQKNMAMLAQQMQLANAMMPGAP LQPVPMFsvAPSLATNASAAAFNPYLGVPVSPSLVPAEILPTAPMLVTGNPGVPVPA AAAAAQKLMRTDRLEVCREYQRGNCNRGENDCRFAHPADSTMIDTNDNTVTVCMD

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YIKGRCSREKCKYFHPPAHLQAKIKAAQYQVNQAAAAQAAATAAAMTQSAVKSLKR  
 PLEATFDLQIPQAVLPPLPKRPALEKTNGATAVFNTGIFQYQQALANMQLQQHTAFL  
 PPVPMVHGATPATVSAATTSATSVPFATATANQIPIISAEHLTSHKYVTQMTRTRPL  
 EQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** MBNL1 muscleblind-like splicing regulator 1 [ Homo sapiens (human) ]

**Official Symbol** MBNL1

**Synonyms** MBNL1; muscleblind-like splicing regulator 1; MBNL, muscleblind (Drosophila) like, muscleblind like (Drosophila); muscleblind-like protein 1; EXP; EXP35; EXP40; EXP42; KIAA0428; triplet-expansion RNA-binding protein; MBNL; DKFZp686P06174;

**Gene ID** 4154

**mRNA Refseq** NM\_207293

**Protein Refseq** NP\_997176

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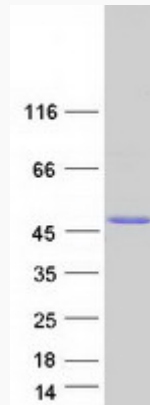
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**MIM** 606516

**UniProt ID** Q9NR56

**SDS-PAGE**



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