

## Product datasheet for **TP323216L**

### **MBNL1 (NM\_207296) Human Recombinant Protein**

#### Product data:

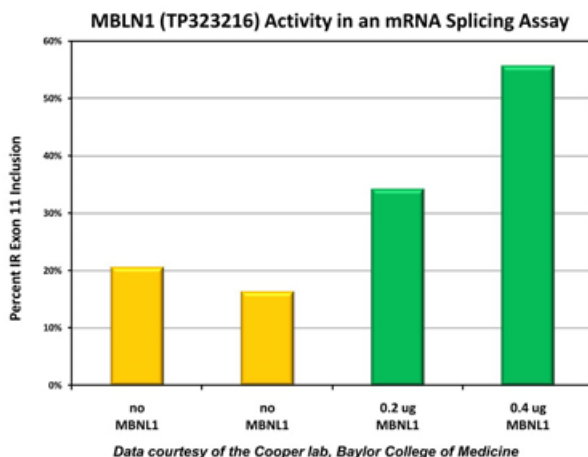
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human muscleblind-like (Drosophila) (MBNL1), transcript variant 6, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223216 representing NM_207296 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MAVSVTPIRDTKWLTLEVCREFQRGTC SRPDTECKFAHPSKSCQVENGRVIACFDSLKGRCSRENCKYLH PPPHLKTQLEINGRNNLIQQKNMAMLAQQMQLANAMMPGAPLQPVPMFVAPSLATNASAAAFNPYLGPV SPSLVPAEILPTAPMLVTGNPGVVPAAAAAAQKLMRTDRLEVCREYQRGNCNRGENDCRFAHPADSTM IDTNDNTVTVCM DYIKGRCSREKCKYFHPAHLQAKIKAAQYQVNQAAAQAAATAAMFPWCTVLRQPL CPQQQHLPQVPSLQQPQPTSPILDASTLLGATSCPAAAGKMIPISAEHLTSHKYVTQM  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	36.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	MBNL1 Activity Verified in an mRNA Splicing Assay: <b>MBNL1 (TP323216) activity</b> was measured in an mRNA splicing assay. RNA containing insulin receptor (IR) alternative exon 11 flanked by heterologous exons was prepared from template DNA by in vitro transcription. The RNA was incubated with 0.1 or 0.2 micrograms of MBNL1 under splicing conditions for 0 or 2 hours. As a negative control, reactions were carried out in the absence of ATP. RNA was purified from the splicing reactions and used as a template for reverse transcriptase PCR (RT-PCR) using primers in the flanking exons. PCR products were run on a 5% acrylamide gel and stained with ethidium bromide. Band intensity was measured by densitometry and the identity of the indicated products was verified by sequencing. (Data courtesy of Tom Cooper's laboratory at the Baylor College of Medicine).

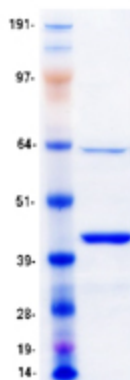


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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_997179</a>
<b>Locus ID:</b>	4154
<b>UniProt ID:</b>	<a href="#">Q9NR56</a> , <a href="#">Q86VM6</a>
<b>RefSeq Size:</b>	5246
<b>Cytogenetics:</b>	3q25.1-q25.2
<b>RefSeq ORF:</b>	1020
<b>Synonyms:</b>	EXP; MBNL
<b>Summary:</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. [provided by RefSeq, Sep 2015]

## Product images:





Coomassie blue staining of purified MBNL1 protein (Cat# [TP323216]). The protein was produced from HEK293T cells transfected with MBNL1 cDNA clone (Cat# [RC223216]) using MegaTran 2.0 (Cat# [TT210002]).