

## Recombinant Human MBNL1, MYC/DDK-tagged

Cat. No. MBNL1-2739H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full-length Human MBNL1, transcript variant 1, fused with C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Muscleblind-like (Drosophila), also known as MBNL1, is a protein that in humans is encoded by the MBNL1 gene. It has been implicated in Myotonic dystrophy and has been shown to autoregulate its transcript. Mediates pre-mRNA alternative splicing regulation. Acts either as activator or repressor of splicing on specific pre-mRNA targets. Inhibits cardiac troponin-T (TNNT2) pre-mRNA exon inclusion but induces insulin receptor (IR) pre-mRNA exon inclusion in muscle. Antagonizes the alternative splicing activity pattern of CELF proteins. |
| <b>Form</b>             | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 40.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### GENE INFORMATION

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|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | MBNL1 muscleblind-like splicing regulator 1 [ Homo sapiens ]                                      |
| <b>Official Symbol</b>     | MBNL1                                                                                             |
| <b>Synonyms</b>            | EXP; MBNL; EXP35; EXP40; EXP42; muscleblind-like protein 1; triplet-expansion RNA-binding protein |
| <b>Gene ID</b>             | 4154                                                                                              |
| <b>mRNA Refseq</b>         | NM_021038                                                                                         |
| <b>Protein Refseq</b>      | NP_066368                                                                                         |
| <b>MIM</b>                 | 606516                                                                                            |
| <b>UniProt ID</b>          | Q9NR56                                                                                            |
| <b>Chromosome Location</b> | 3q25                                                                                              |
| <b>Pathway</b>             | Adipogenesis, organism-specific biosystem                                                         |
| <b>Function</b>            | RNA binding; double-stranded RNA binding; metal ion binding                                       |

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