



# Human MBNL1 peptide (DAG-P1796)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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. Regulates the TNNT2 exon 5 skipping through competition with U2AF2. Inhibits the formation of the spliceosome A complex on intron 4 of TNNT2 pre-mRNA. Binds to the stem-loop structure within the polypyrimidine tract of TNNT2 intron 4 during spliceosome assembly. Binds to the 5'-YGCU(U/G)Y-3'consensus sequence. Binds to the IR RNA. Binds to expanded CUG repeat RNA, which folds into a hairpin structure containing GC base pairs and bulged, unpaired U residues.
<b>Specificity</b>	Highly expressed in cardiac, skeletal muscle and during myoblast differentiation. Weakly expressed in other tissues (at protein level). Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the muscleblind family.Contains 4 C3H1-type zinc fingers.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

## GENE INFORMATION

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

<b>Official Symbol</b>	MBNL1
<b>Synonyms</b>	MBNL1; muscleblind-like splicing regulator 1; EXP; MBNL; EXP35; EXP40; EXP42; muscleblind-like protein 1; triplet-expansion RNA-binding protein;
<b>Entrez Gene ID</b>	<a href="#">4154</a>
<b>mRNA Refseq</b>	<a href="#">NM_021038.3</a>
<b>Protein Refseq</b>	<a href="#">NP_066368.2</a>
<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; poly(A) RNA binding; protein binding;