

## Product datasheet for MC209933

### Hnrnpa2b1 (NM\_182650) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hnrnpa2b1 (NM_182650) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hnrnpa2b1
Synonyms:	9130414A06Rik; hnrnp-A; Hnrpa2; Hnrpa2b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209933 representing NM_182650 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGAGAGAGAAAAGGAACAGTTCGAAAGCTCTTTATTGGTGGCTTAAGCTTTGAAACCACAGAAGAAA  
 GTTTGAGAACTACTATGAGCAATGGGAAAGCTCACAGACTGTGTGGTTATGCGGGATCCTGCAAGCAA  
 AAGATCAAGAGGATTTGGCTTTGTAACCTTCTCATCCATGGCCGAGGTTGACGCTGCCATGGCTGCAAGG  
 CCCCATTCCATTGATGGCAGGTAGTTGAGCCAAAACGTGCTGTAGCAAGAGAGGAGTCTGGAACCAG  
 GAGCCCATGTGACTGTGAAGAAGCTGTTTGTGGTGAATTAAGGAAGATACTGAGGAACACCACCTTAG  
 AGATTACTTTGAAGAGTATGGAAAAATTGATACTATTGAAATAATTACCGATAGGCAGTCTGGAAAGAAA  
 AGAGGCTTTGGCTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAATTGTCTTGCAAAAATATCACA  
 CCATAAATGGTCACAATGCAGAAGTTAGAAAGGCATTGTCTAGACAAGAAATGCAGGAAGTCCAAAGTTC  
 TAGGAGTGAAGAGGAGGAACTTTGGTTTTGGGATTCTCGTGGTGGCGGTGGCAATTTTGACCAGGA  
 CCAGGAAGCACTTTAGGGGGGATCTGATGGATACGGAAGTGGACGTGGATTGGGGATGGCTATAATG  
 GGTATGGAGGAGGACCTGGAGGAAATTATGGAAGTGAAGTTACAATGATTTGGAAATTATAACCGCA  
 GCCTTCTAACTATGGTCCAATGAAGAGTGGAACTTTGGGGTAGCAGGAACATGGGAGGACCATATGGT  
 GGAGGGAACATATGGTCCTGGAGGAAGTGGAGGAAGTGGTGGCTATGGTGAAGGAGCAGATATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_182650
Insert Size:	906 bp


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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_182650.4</a></u> , <u><a href="#">NP_872591.1</a></u>
<b>RefSeq Size:</b>	2145 bp
<b>RefSeq ORF:</b>	906 bp
<b>Locus ID:</b>	53379
<b>UniProt ID:</b>	<u><a href="#">O88569</a></u>
<b>Cytogenetics:</b>	6 B3

**Gene Summary:**

Heterogeneous nuclear ribonucleoprotein (hnRNP) that associates with nascent pre-mRNAs, packaging them into hnRNP particles. The hnRNP particle arrangement on nascent hnRNA is non-random and sequence-dependent and serves to condense and stabilize the transcripts and minimize tangling and knotting. Packaging plays a role in various processes such as transcription, pre-mRNA processing, RNA nuclear export, subcellular location, mRNA translation and stability of mature mRNAs. Forms hnRNP particles with at least 20 other different hnRNP and heterogeneous nuclear RNA in the nucleus. Involved in transport of specific mRNAs to the cytoplasm in oligodendrocytes and neurons: acts by specifically recognizing and binding the A2RE (21 nucleotide hnRNP A2 response element) or the A2RE11 (derivative 11 nucleotide oligonucleotide) sequence motifs present on some mRNAs, and promotes their transport to the cytoplasm (By similarity). Specifically binds single-stranded telomeric DNA sequences, protecting telomeric DNA repeat against endonuclease digestion (By similarity). Also binds other RNA molecules, such as primary miRNA (pri-miRNAs): acts as a nuclear 'reader' of the N6-methyladenosine (m6A) mark by specifically recognizing and binding a subset of nuclear m6A-containing pri-miRNAs. Binding to m6A-containing pri-miRNAs promotes pri-miRNA processing by enhancing binding of DGCR8 to pri-miRNA transcripts. Involved in miRNA sorting into exosomes following sumoylation, possibly by binding (m6A)-containing pre-miRNAs. Acts as a regulator of efficiency of mRNA splicing, possibly by binding to m6A-containing pre-mRNAs (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. It encodes isoform 2, which lacks an internal segment and is shorter, compared to isoform 1.