

Product datasheet for MC209932

Hnrnpa2b1 (NM_016806) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hnrnpa2b1 (NM_016806) 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:	>MC209932 representing NM_016806 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGAGAAAAGGAACAGTTCGAAAGCTCTTTATTGGTGGCTTAAGCTTTGAAACACAGAAGAAA
GTTTGAGAACTACTATGAGCAATGGGAAAGCTCACAGACTGTGTGGTTATGCGGGATCCTGCAAGCAA
AAGATCAAGAGGATTTGGCTTTGTAACCTTCTCATCCATGGCCGAGGTTGACGCTGCCATGGCTGCAAGG
CCCCATCCATTGATGGCAGGAGTTGAGCCAAAACGTGCTGTAGCAAGAGAGGAGTCTGGAACCAG
GAGCCCATGTGACTGTGAAGAAGCTGTTGTTGGTGAATTAAGGAAGATACTGAGGAACACCACCTTAG
AGATTACTTTGAAGATATGGAATAATGATACTATTGAAATAATTACCGATAGGCAGTCTGGAAGAAA
AGAGGCTTTGGCTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAATTGCTTGCAAAAATATCACA
CCATAAATGGTCAACAATGCAGAAGTTAGAAAGGCATTGTCTAGACAAGAAATGCAGGAAGTCCAAAGTTC
TAGGAGTGAAGAGGAGGAACTTTGGTTTTGGGATTCTCGTGGTGGCGGTGGCAATTTTGACCAGGA
CCAGGAAGCACTTTAGGGGGGATCTGATGGATACGGAAGTGGACGTGGATTTGGGGATGGCTATAATG
GGTATGGAGGAGGACCTGGAGGTGGCAATTTGGAGGTAGCCCTGGTTATGGAGGAGGAAGAGGAGGATA
TGGTGGTGGAGGACCTGGATATGGCAACCAGGTTGGGGCTACGGAGGTGGTTATGACAACTATGGAGGA
GGAAATTATGGAAGTGAAGTTACAATGATTTTGGAAATTATAACCAGCAGCCTTCTAACTATGGTCCAA
TGAAGAGTGGAACTTTGGGGTAGCAGGAACATGGGAGGACCATATGGTGGAGGAACTATGGTCTCTGG
AGGAAGTGGAGGAAGTGGTGGCTATGGTGAAGGAGCAGATAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_016806
Insert Size:	1026 bp
OTI Disclaimer:	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).
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	<u>NM_016806.3</u> , <u>NP_058086.2</u>
RefSeq Size:	2265 bp
RefSeq ORF:	1026 bp
Locus ID:	53379
UniProt ID:	<u>O88569</u>
Cytogenetics:	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 (1) encodes the longer isoform (1).