

## Product datasheet for SC313092

### hnRNP A2B1 (HNRNPA2B1) (NM\_031243) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP A2B1 (HNRNPA2B1) (NM_031243) Human Untagged Clone
Tag:	Tag Free
Symbol:	hnRNP A2B1
Synonyms:	HNRNPA2; HNRNPB1; HNRPA2; HNRPA2B1; HNRPB1; IBMPFD2; RNPA2; SNRPB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene ORF sequence for NM_031243 edited</p> <p>ATGGAGAAAACCTTTAGAACTGTTCTTTGGAGAGGAAAAAGAGAGAAAAGGAACAGTTC</p> <p>CGTAAGCTCTTTATTGGTGGCTTAAGCTTTGAAACCACAGAAGAAAGTTTGAGGAACTAC</p> <p>TACGAACAATGGGAAAAGCTTACAGACTGTGTGGTAATGAGGGATCCTGCAAGCAAAAGA</p> <p>TCAAGAGGATTTGGTTTTGTAACCTTTTCATCCATGGCTGAGGTTGATGCTGCCATGGCT</p> <p>GCAAGACCTCATTCAATTGATGGGAGAGTAGTTGAGCCAAAACGTGCTGTAGCAAGAGAG</p> <p>GAATCTGGAAAACCAGGGGCTCATGTAACGTGAAGAAGCTGTTTGGTGGCGGAATTAAA</p> <p>GAAGATACTGAGGAACATCACCTTAGAGATTACTTTGAGGAATATGAAAAATTGATACC</p> <p>ATTGAGATAATTACTGATAGGCAGTCTGGAAAGAAAAGAGGCTTTGGCTTTGTTACTTTT</p> <p>GATGACCATGATCCTGTGGATAAAATCGTATTGCAGAAATACCATACCATCAATGGTCAT</p> <p>AATGCAGAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCAGGAAGTTCAGAGTTCTAGG</p> <p>AGTGGAAGAGGAGGCAACTTTGGCTTTGGGGATTACGTGGTGGCGGTGGAAATTCGGA</p> <p>CCAGGACCAGGAAGTAACCTTTAGAGGAGGATCTGATGGATATGGCAGTGGACGTGGATTT</p> <p>GGGGATGGCTATAATGGGTATGGAGGAGGACCTGGAGGTGGCAATTTTGGAGGTAGCCCC</p> <p>GGTTATGGAGGAGGAAGAGGAGGATATGGTGGTGGAGGACCTGGATATGGCAACCAGGT</p> <p>GGGGGCTACGGAGGTGTTATGACAACTATGGAGGAGGAAATTATGGAAGTGGAATTAC</p> <p>AATGATTTTGGAAATTATAACCAGCAACCTTCTAACTACGGTCCAATGAAGAGTGGAAC</p> <p>TTTGGTGGTAGCAGGAACATGGGGGACCATATGGTGGAGGAACTATGGTCCAGGAGGC</p> <p>AGTGGAGGAAGTGGGGTTATGGTGGGAGGAGCCGATACTGA</p>
Restriction Sites:	Please inquire
ACCN:	NM_031243
Insert Size:	1600 bp


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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_031243.1](#), [NP\\_112533.1](#)

**RefSeq Size:** 1780 bp

**RefSeq ORF:** 1062 bp

**Locus ID:** 3181

**UniProt ID:** [P22626](#)

**Cytogenetics:** 7p15.2

**Domains:** RRM

**Protein Families:** Druggable Genome

**Gene Summary:**

This gene belongs to the A/B subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene has two repeats of quasi-RRM domains that bind to RNAs. This gene has been described to generate two alternatively spliced transcript variants which encode different isoforms. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (B1) contains an additional 36 bases compared to variant A2. This additional region affects only the beginning of the coding region. The N-terminus of isoform B1 is thus different from isoform A2.