

## Product datasheet for RC219318

### hnRNP A2B1 (HNRNPA2B1) (NM\_002137) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP A2B1 (HNRNPA2B1) (NM_002137) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	hnRNP A2B1
Synonyms:	HNRNPA2; HNRNPB1; HNRPA2; HNRPA2B1; HNRPB1; IBMPFD2; RNPA2; SNRPB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>&gt;RC219318 representing NM_002137</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p>

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGAGAGAGAAAAGGAACAGTTCGTAAGCTCTTTATTGGTGGCTTAAGCTTTGAAACACAGAAGAAA  
 GTTTGAGGAAGTACTACGAACAATGGGAAAGCTTACAGACTGTGTGTAATGAGGGATCTGCAAGCAA  
 AAGATCAAGAGGATTTGGTTTTGTAACCTTTTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGCAAGA  
 CCTCATCAATTGATGGGAGAGTAGTTGAGCCAAAACGTGCTGTAGCAAGAGAGGAATCTGGAACACAG  
 GGGCTCATGTAAGTGTGAAGAAGCTGTTTGTGGCGGAATTAAGAAGATACTGAGGAACATCACCTTAG  
 AGATTACTTTGAGGAATATGGAAAAATTGATACCATTGAGATAATTACTGATAGGCAGTCTGGAAAGAAA  
 AGAGGCTTTGGCTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAATCGTATTGCAGAAATACCATA  
 CCATCAATGGTCATAATGCAGAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCAGGAAGTTCAGAGTTC  
 TAGGAGTGGAAGAGGAGGCAACTTTGGCTTTGGGGATTACGTTGGTGGCGGTGGAATTTTCGGACCAGGA  
 CCAGGAAGTAACCTTAGAGGAGGATCTGATGGATATGGCAGTGGACGTGGATTGGGGATGGCTATAATG  
 GGTATGGAGGAGGACCTGGAGGTGGCAATTTGGAGGTAGCCCGGTTATGGAGGAGGAAGAGGAGGATA  
 TGGTGGTGGAGGACCTGGATATGGCAACCAGGGTGGGGCTACGGAGGTGGTTATGACAACTATGGAGGA  
 GGAAATTATGGAAGTGGAAATTACAATGATTTTGGAAATTATAACCAGCAACCTTCTAACTACGGTCCAA  
 TGAAGAGTGGAACTTTGGTGGTAGCAGGAACATGGGGGACCATATGGTGGAGGAACTATGGTCCAGG  
 AGGCAGTGGAGGAAGTGGGGTTATGGTGGGAGGAGCCGATAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC219318 representing NM\_002137  
 Red=Cloning site Green=Tags(s)

MERKEQFRKLFIGGLSFETTEESLRNYEQWGKLTDCVVMRDPASKRSRGFGFVTFSSMAEVDAAAMAR  
 PHSIDGRVVEPKRAVAREESGKPGAHVTVKKLFVGGIKEDTEEHLRDYFEEYGKIDTIEIITDRQSGKK  
 RGF GFVTFDDHDPVDKIVLQKYHTINGHNAEVRKALSRQEMQEVQSSRSRGGNFGFGDSRGGGNGFGPG  
 PGSNFRGGSDGYGSGRGFGDGYNGYGGGPGGNGFGSPGYGGGRGGYGGGPGYGNQGGGYGGGYDNYGG  
 GNYGSGNYNDFGNYNQPSNYGPMKSGNFGGSRNMGPGYGGGNYGPGSGSGSGGYGGRSRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6612\\_b12.zip](https://cdn.origene.com/chromatograms/mk6612_b12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002137

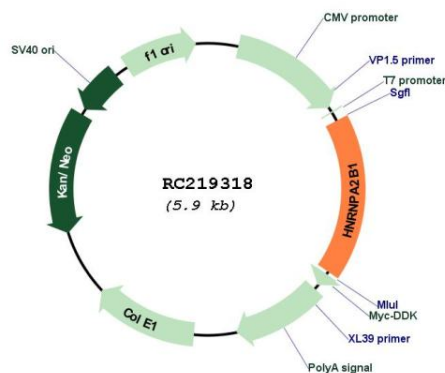
**ORF Size:** 1023 bp

**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.

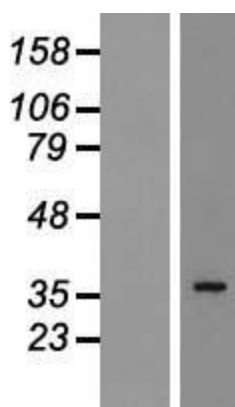
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in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

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_002137.4</a>
<b>RefSeq Size:</b>	1714 bp
<b>RefSeq ORF:</b>	1026 bp
<b>Locus ID:</b>	3181
<b>UniProt ID:</b>	<a href="#">P22626</a>
<b>Cytogenetics:</b>	7p15.2
<b>Domains:</b>	RRM
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	35.8 kDa
<b>Gene Summary:</b>	<p>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]</p>

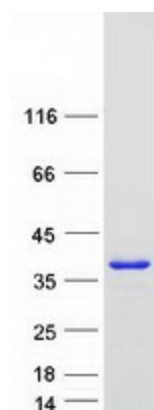
## Product images:



Circular map for RC219318



Western blot validation of overexpression lysate (Cat# [LY424979]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219318 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HNRNPA2B1 protein (Cat# [TP319318]). The protein was produced from HEK293T cells transfected with HNRNPA2B1 cDNA clone (Cat# RC219318) using MegaTran 2.0 (Cat# [TT210002]).