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Product datasheet for SC109310

hnRNP A2B1 (HNRNPA2B1) (NM_002137) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP A2B1 (HNRNPA2B1) (NM_002137) Human Untagged Clone
Tag:	Tag Free
Symbol:	hnRNP A2B1
Synonyms:	HNRNPA2; HNRNPB1; HNRPA2; HNRPA2B1; HNRPB1; IBMPFD2; RNPA2; SNRPB1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002137, the custom clone sequence may differ by one or more nucleotides

ATGGAGAGAGAAAAGGAACAGTTCCGTAAGCTCTTTATTGGTGGCTTAAGCTTTGAAACCACAGAAGAAA
GTTTGAGGAACTACTACGAACAATGGGGAAAGCTTACAGACTGTGTGGTAATGAGGGATCCTGCAAGCAA
AAGATCAAGAGGATTTGGTTTTGTAACTTTTTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGCAAGA
CCTCATTCAATTGATGGGAGAGTAGTTGAGCCAAAACGTGCTGTAGCAAGAGAGGAATCTGGAAAACCAG
GGGCTCATGTAACTGTGAAGAAGCTGTTTGTTGGCGGAATTAAAGAAGATACTGAGGAACATCACCTTAG
AGATTACTTTGAGGAATATGGAAAAATTGATACCATTGAGATAATTACTGATAGGCAGTCTGGAAAGAAA
AGAGGCTTTGGCTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAATCGTATTGCAGAAATACCATA
CCATCAATGGTCATAATGCAGAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCAGGAAGTTCAGAGTTC
TAGGAGTGGAAGAGGAGGCAACTTTGGCTTTGGGGATTCACGTGGTGGCGGTGGAAATTTCGGACCAGGA
CCAGGAAGTAACTTTAGAGGAGGATCTGATGGATATGGCAGTGGACGTGGATTTGGGGATGGCTATAATG
GGTATGGAGGAGGACCTGGAGGTGGCAATTTTGGAGGTAGCCCCGGTTATGGAGGAGGAAGAGGAGGATA
TGGTGGTGGAGGACCTGGATATGGCAACCAGGGTGGGGGCTACGGAGGTGGTTATGACAACTATGGAGGA
GGAAATTATGGAAGTGGAAATTACAATGATTTTGGAAATTATAACCAGCAACCTTCTAACTACGGTCCAA
TGAAGAGTGGAAACTTTGGTGGTAGCAGGAACATGGGGGGACCATATGGTGGAGGAAACTATGGTCCAGG
AGGCAGTGGAGGAAGTGGGGGTTATGGTGGGAGGAGCCGATACTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002137 unedited
NGAGGTGATCATAGGNATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGTCCCG
TGCGGAGGTGTTCCTCGCAGAGTTGTTTCTCGAGCAGCGGCAGTTCTCACTACAGCGCCA
GGACGAGTCCGGTTCGTGTTCGTCCGCGGAGATCTCTCTCATCTCGCTCGGCTGCGGGAA
ATCGGGCTGAAGCGACTGAGTCCGCGATGGAGAGAGAAAAGGAACAGTTCCGTAAGCTCT
TTATTGGTGGCTTAAGCTTTGAAACCACAGAAGAAAGTTTGAGGAACTACTACGAACAAT
GGGGAAAGCTTACAGACTGTGTGGTAATGAGGGATCCTGCAAGCAAAAGATCAAGAGGAT
TTGGTTTTGTAACTTTTTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGCAAGACCTC
ATTCAATTGATGGGAGAGTAGTTGAGCCAAAACGTGCTGTAGCAAGAGAGGAATCTGGAA
AACCAGGGGCTCATGTAACTGTGAAGAAGCTGTTTGTTGGCGGAATTAAAGAAGATACTG
AGGAACATCACCTTAGAGATTACTTTGAGGAATATGGAAAAATTGATACCATTGAGATAA
TTACTGATAGGCAGTCTGGAAAGAAAAGAGGCTTTGGCTTTGTTACTTTTGATGACCATG
ATCCTGTGGATAAAATCGTATTGCAGAAATACCATACCATCAATGGTCATAATGCAGAAG
TAAGAAAGGCTTTGTCTAGACAAGAATGCANGAAGTTCAGAGTTCTAGGAGTGGAAGAGG
AGGCAACTNTGGCTTTGGGGATTCACGTGGTGGCGGTGGAAATTTTCGACCCAGACCAGG
AATAACTTTAAAGGGAGATCTGATGGATATGCCATTGGACCTGGACTTTGGGATGGCTTT
ATCGCTATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002137 unedited
TTGTACGCGGCCGCAATCTANAACCGAGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTCCTTGAAAATTATTTTATTAAATCATAAGGGCCCAACCGCTTTTTA
ACTTTCCACCCCCCCTTAAATTTTTTTAAGGGAAAAACGTTTTGTTTTATTACACCGTGA
CCCTGGTTAAAAGCTTTTAAAAACTTTGAAAAAAAATCTTAAAAAAGGTTTACACATGTC
ACCTGAAACTTACAAATTTAACTTTATCAAAAAAGGAAGGTTTTTACATTTTTACAAAAA
CCCCTTAAAAGAAACACCATTCAAAAAGCTAAAAACCTGTCTAAAAGGCTTTTTTTTTTA
CAATCTTTCCTCCAAAGTAGGGGAAGGTTATTAAATAATCCACCCCATTCACAAAAGGGC
CCTCTGAATTGGCCCTGGGGTTTTCTGCCATATCACTGCATATTTATGCATGATTGAAAT
AAAAGCTTCTTTACCATTGCCATTCCAACAACCTGAACCTGCCTTGTCCCCTTGGGGCTC
TCATCCCTCCCTATTATACAGGGACCCCCTTGGCAACACGGAAAAACCCACACTCGGGCT
CCCCCCACCATAACCGCCTTTAGCTACCTGGACCCGGGACCATACCCCCCTCATTATATG
GCTTCCCCCCTCCTTCGCCCCTCTATATTTTCACTCTACCCCCCCCCCCCATGCGCCAACG
GTGCCGCTCACCCCTCCAACACCTTGGCGCTCTTCACCCCCCAATATTTTTCCCACATCC
CGCCTTCCCCCACTTTCCCCCCCCCCTCTGGTTCCCCCCCCTCCCTTTCTTTTCCCCCTT
TCCCCCCCCTCCCCCCTTTTTTGTTCTTTCCCCTCCCCCCGCACCATCCTCCTATTTTAT
TCCTGTTTCCCCTCCCATCTCCCCCCCCCACCTCCCTTTCCCACCCCTCTTCTCCCCCCAC
TT

Restriction Sites: NotI-NotI

ACCN: NM_002137

Insert Size: 1770 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 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
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.
RefSeq:	NM_002137.2, NP_002128.1
RefSeq Size:	1714 bp
RefSeq ORF:	1026 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 (A2) lacks 36 bases at the beginning of the coding region compared to variant B1. The N-terminus of isoform A2 is thus different from isoform B1. This isoform (A2) is the predominant protein.