

Product datasheet for **SC109309**

hnRNP A1 (HNRNPA1) (NM_031157) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP A1 (HNRNPA1) (NM_031157) Human Untagged Clone
Tag:	Tag Free
Symbol:	hnRNP A1
Synonyms:	ALS19; ALS20; hnRNP-A1; hnRNP A1; HNRPA1; HNRPA1L3; IBMPFD3; UP 1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_031157 edited TTCACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGC TCTTCATTGGAGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGGAGC AATGGGGAAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG GCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGC CACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTC AAAGACCAGGTGCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACA CTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAA TCATGACTGACCGAGGCAGTGGCAAGAAAAGGGCTTTGCCTTTGTAACCTTTGACGACC ATGACTCCGTGGATAAAGATTGTCATTTCAGAAATACCATACTGTGAATGGCCACAACCTGTG AAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTC GAAGTGGTTCTGGAACTTTGGTGGTGGTCGTGGAGGTGGTTTCGGTGGGAATGACAAC TCGGTTCGTGGAGGAACTTCAGTGGTTCGTGGTGGCTTTGGTGGCAGCCGTGGTGGTGGT GATATGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGTGGTTATGGAGGAG GCGGCCCTGGTTACTCTGGAGGAAGCAGAGGCTATGGAAGTGGTGGACAGGGTTATGGAA ACCAGGGCAGTGGCTATGGCGGGAGTGGCAGCTATGACAGCTATAACAACGGAGGCGGAG GCGGCTTTGGCGGTGGTGTGGAAGCAATTTGGAGGTGGTGGAAAGCTACAATGATTTT GGAATTACAACAATCAGTCTTCAAATTTGGACCCATGAAGGGAGGAAATTTGGAGGCA GAAGCTCTGGCCCTATGGCGGTGGAGGCAATACTTTGCAAAACCACGAAACCAAGGTG GCTATGGCGGTTTCAGCAGCAGCAGTAGCTATGGCAGTGCCAGAAGATTTAATTAGGAA ACAAAGCTT
Restriction Sites:	Please inquire
ACCN:	NM_031157
Insert Size:	1200 bp



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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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_031157.1.
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_031157.1, NP_112420.1</u>
RefSeq Size:	1925 bp
RefSeq ORF:	1119 bp
Locus ID:	3178
UniProt ID:	<u>P09651</u>
Cytogenetics:	12q13.13
Domains:	RRM
Protein Pathways:	Spliceosome
Gene Summary:	<p>This gene encodes a member of a family of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs), which are RNA-binding proteins that associate with pre-mRNAs in the nucleus and influence pre-mRNA processing, as well as other aspects of mRNA metabolism and transport. The protein encoded by this gene is one of the most abundant core proteins of hnRNP complexes and plays a key role in the regulation of alternative splicing. Mutations in this gene have been observed in individuals with amyotrophic lateral sclerosis 20. Multiple alternatively spliced transcript variants have been found. There are numerous pseudogenes of this gene distributed throughout the genome. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (2, also known as A1B) contains an alternate in-frame exon compared to variant 1, resulting in a longer protein (isoform b) than isoform 1.</p>