

Product datasheet for **SC109308**

hnRNP A1 (HNRNPA1) (NM_002136) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP A1 (HNRNPA1) (NM_002136) 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 ORF within SC109308 sequence for NM_002136 edited (data generated by NextGen Sequencing)

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ATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGG
TTGAGCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGGCAATGGGGAACGCTC
ACGGACTGTGTGTAATGAGAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTG
ACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGAT
GGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCC
CACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACTGAAGAACATCAC
CTAAGAGATTATTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGA
GGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGAT
AAGATTGTCATTCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCC
CTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGA
AACTTTGGTGGTGGTGGTGGAGGTGGTTTCGGTGGGAATGACAACCTTCGGTGGTGGAGGA
AACTTCAGTGGTGGTGGTGGCTTTGGTGGCAGCCGTGGTGGTGGTGGATATGGTGGCAGT
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AATGATTTTGGGAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAAT
TTTGGAGGCAGAAAGCTCTGGCCCTATGGCGGTGGAGGCCAATACTTTGCAAAACCACGA
AACCAAGGTGGCTATGGCGGTTCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTT
TAA
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Clone variation with respect to NM_002136.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002136 unedited
TATACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGGGCATCGTTAAAGTCTCTCTTC
ACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCT
TCATTGGAGGGTTGAGCTTTGAAACAACATGATGAGAGCCTGAGGAGCCATTTTGAGCAAT
GGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGGGCT
TTGGGTTTGTACATATGCCACTGTGGAGGAGTGGATGCAGCTATGAATGCAAGGCCAC
ACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAA
GACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACTG
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TGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATG
ACTCCGTGGATAAGATTGTCATTACAGAAATACCATACTGTGAATGGCCACAACCTGTGAAG
TTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGTTCATCCAGCCAAAGAGGTGCGAA
GTGGTTCTGGAACCTTTGGTGGGTGGCTGGGAGGTGTTTTCGTGGGAATGACAACCTN
TCNGTCGTGGAGGAACTTNCAGTGGTCTGGTGGCTTTTGTGGCAGCCGTGGTTGGTGG
TGGATATGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTGG
AGTGGNTGGAGCTACAATGATTTGGGAAATACACATCAGTCTTAATTTTGGACCCGTAAG
GGAGAATTTTGGAGCAGAGCTTTGCCCTTATGCGGTGGAGCCATACTTTGCAACCCACN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002136 unedited
ACTATGGACCGCGGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTCAAAAAAAT
AAATCGTTTATTGATTACACATGATAATGGATACACAAGCTTCATTCCCCTCTATAATTT
TATCTGGTACCATTATTTCAATTTAAATATATTGCATAGGATGTGCCAACCAATCACTTTTA
TAACCATTCCATGATTTTCTGGGTAATCCCTTTTAAATGGTGAACCTTCAGGTCACAACA
GTAACATCAGTTCAACTACACCAAGGTTTCCGAAGACAATGGCTTCTCCACCCAAGCAG
GTTGTATATAAATTCAAATAGAACCTGGCATCACCTGAAGGAATTCTAACTTCACACT
GTTGGGAAAATTTACCAAGATGGCTTAAGAGTAGACTAACTTTACACAGCACATTAATAAAA
AAAGACATTTATTCAGCGTCACGATCAGACTGTTACATTTAGCAATCAACAGCATGGGGT
GCAAAAAAAAAAATCTACATTAACCCCTTTGTTGGAATGCTTTACACTTTCCACAGAAC
AGAAACTAAAATAACCTGTTATAACAATTAGTCACAATACAGTCCCTCGAGTTTTTTGCC
ATACACATGAGTATTTGTCTAAAACATGTCTTTTGTAGCAGCTAGGCCCTGCCACCAC
TGTGCTTGGCTGAGTTCACAAATCTGTTGTAACCTGAAGCTTCCCTGTCACTTCTCTGGC
TCTCCTCTCCTGCTAAGCTTTGTTTCTAATTAATTTTCTGCCACTGCCATAGCTACTG
CTGCTGTGGAACCGCATAGCCACCTTGTTCGGGTTTTGCAAGTATTGCCCTCCAC
CGCATAGGGCCAAAGCTTCTGCTCCAAAATCCCTCCCTCATGGGCCAAAATTTGAAACGA
TTGGGGNAATTCAAATATTTGAGCTCCCCACCTCCAAATGGTTCCTCTTTCCAATACCT
TTACCCTCCCCTGC

Restriction Sites:

NotI-NotI

ACCN:

NM_002136

Insert Size:

1840 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:

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_002136.1](#), [NP_002127.1](#)

RefSeq Size: 1769 bp

RefSeq ORF: 963 bp

Locus ID: 3178

UniProt ID: [P09651](#)

Cytogenetics: 12q13.13

Domains: RRM

Protein Pathways: Spliceosome

Gene Summary: 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]

Transcript Variant: This variant (1, also known as A1) encodes isoform a.