

## Product datasheet for **SC109317**

### hnRNP U (HNRNPU) (NM\_004501) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP U (HNRNPU) (NM_004501) Human Untagged Clone
Tag:	Tag Free
Symbol:	hnRNP U
Synonyms:	DEE54; EIEE54; GRIP120; hnRNP U; HNRNPU-AS1; HNRPU; pp120; SAF-A; SAFA; U21.1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_004501, the custom clone sequence may differ by one or more nucleotides

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ATGAGTTCCTCGCCTGTTAATGTAAAAAGCTGAAGGTGTCGGAGCTGAAAGAGGAGCTCAAGAAGCGAC
GCCTTCTGACAAGGGTCTCAAGGCCGAGCTCATGGAGCGACTCCAGGCTGCGCTGGACGACGAGGAGGC
CGGGGGCCGCCCGCCATGGAGCCCGGAACGGCAGCCTAGACCTGGGCGGGGATTCCGCTGGGCGCTCG
GGAGCAGGCTCGAGCAGGAGGCCGCGCGGCGGCGATGAAGAGGAGGAGGAAGAGGAAGAGGAGGAGG
AAGGAATCTCCGCTCTGGACGGCACCAGATGGAGCTAGGAGAGGAGAACGGGGCCGCGGGGCGGCCGA
CTCGGGCCGATGGAGGAGGAGGAGGCCGCTCGGAAGACGAGAACGGCGACGATCAGGGTTTCCAGGAA
GGGGAAGATGAGCTCGGGGACGAAGAGGAAGGCGGGGCGACGAGAACGGGCACGGGGAGCAGCAGCCTC
AACCGCCGGCAGCAGCAGCAACAGCCCAACAGCAGCGGGGCGCCAAAGGAGGCCGCGGGGAAGAG
CAGCGGCCACCTCGCTGTTGCGGGTACGGTGGCGCCCGGGGCGAGGCAGGGCCAGCAGCAGGGC
GGAGGGGACGGCAAAACAGAACAGAAAGCGGAGATAAAAAGAGGGGTGTTAAAAGACCACGAGAAGATC
ATGGCCGTGGATATTTTGTAGTACATTGAAGAGAACAGTATAGCAGAGCCAAATCTCCTCAGCCACCTGT
TGAAGAAGAAGATGAACACTTCGATGACACAGTGGTTTGTCTTGATACTTATAATTGTGATCTACATTTT
AAAATATCAAGAGATCGTCTCAGTGCTTCTCCCTTACAATGGAGAGTTTTGCTTTTCTTTGGGCTGGAG
GAAGAGCATCCTATGGTGTGTCAAAAGGCAAAGTGTGTTTTGAGATGAAGGTTACAGAGAAGATCCCAGT
AAGGCATTTATATACAAAAGATATTGACATACATGAAGTTCGATTGGCTGGTCACTAACTACAAGTGGAA
ATGTTACTTGGTGAAGAAAGATTTTCTTATGGGTATTCTCTAAAAGGAATAAAAACATGCAACTGTGAGA
CTGAAGATTATGGAGAAAAGTTTGTGAAAATGATGTGATTACATGTTTTGCTAACTTTGAAAGTGTGAG
AGTAGAACTCTCGTATGCTAAGAATGGACAAGATCTTGGCGTTGCCTTCAAATCAGTAAGGAAGTTCCT
GCTGGACGGCCACTGTTCCCGCATGTTCTGCCACAACGTGCGAGTTGAATTTAATTTTGGTCAGAAGG
AAAAGCCATATTTTCCAATACCTGAAGAGTATACTTTTCATCCAGAACGTCCTTATAGAGGATCGAGTTAG
AGGACCAAAGGGCCTGAAGAGAAGAAAGATTGTGAAGTTGTGATGATTGGCTTGCAGGAGCTGGA
AAAACCTACCTGGGTTACTAAACATGCAGCAGAAAATCCAGGGAAATATAACATTCTTGGCACAAATACTA
TTATGGATAAGATGATGGTGGCAGGTTTTAAGAAGCAAATGGCAGATACTGGAAAACCTGAACACACTGTT
GCAGAGAGCCCCCAGTGTCTTGGGAAATTTATTGAGATTGCTGCCCGAAAGAAGCGAAATTTTATTCTG
GATCAGACAAATGTGTCTGCTGCTGCCAGAGGAGAAAAATGTGCCTGTTTGCAGGCTTCCAGCGAAAAG
CTGTTGTAGTTTGCCTAAAGATGAAGACTATAAGCAAAGAACACAGAAGAAAGCAGAAGTAGAGGGGAA
AGACCTACCAGAACATGCGGTCTCAAATGAAAGGAACTTTACCTCCAGAGGTAGCTGAGTGTCTT
GATGAAAATAACCTATGTTGAACTTCAGAAGGAAGAAGCCAAAAACTCTTGGAGCAATATAAGGAAGAAA
GCAAAAAGGCTCTTCCACCAGAAAAGAAACAGAACTGGCTCAAAGAAAAGCAATAAAAATAAGAGTGG
CAAGAACCAGTTTAAACAGAGGTGGTGGCCATAGAGGACGTGGAGGATTCAATATGCGTGGTGGAAATTTT
AGAGGAGGAGCCCTGGGAATCGTGGCGGATATAATAGGAGGGGCAACATGCCACAGAGAGGTGGTGGCG
GTGGAGGAAGTGGTGGAAATCGGCTATCCATACCCTCGTGCCTGTTTTCTGGCCGTGGTAGTTACTC
AAACAGAGGGAACATAACAGAGGTGGAATGCCAACAGAGGGAACATAACAGAACTTTCAGAGGACGA
GGAAACAATCGTGGCTACAAAAATCAATCTCAGGGCTACAACCAGTGGCAGCAGGGTCAATCTGGGGTC
AGAAGCCATGGAGTCAGCATTATACCAAGGATATTATTGA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004501 unedited  
 GTCGAATTTTGTAAACGAACTCTATAGGGCGGCCGGCGAATTCGCACGAGGGGCCCTC  
 ACCATGAGTTCCTCGCCTGTTAATGTAAAAAGCTGAAGGTGTCGGAGCTGAAAGAGGAG  
 CTCAAGAAGCGACGCCTTTCTGACAAGGGTCTCAAGGCCGAGCTCATGGAGCGACTCCAG  
 GCTGCGCTGGACGACGAGGAGGCCGGGGGCCCGCCCATGGAGCCCGGAACGGCAGC  
 CTAGACCTGGGCGGGATTCCGCTGGGCGCTCGGGAGCAGGCCTCGAGCAGGAGGCCGCG  
 GCCGGCGCGCATGAAGAGGAGGAGGAAGAGGAGGAGGAAGGAATCTCCGCTCTG  
 GACGGCGACCCAGATGGAGCTAGGAGAGGAGAACGGGGCCGCGGGGCGGCCGACTCGGGC  
 CCGATGGAGGAGGAGGAGGCCGCTCGGAAGACGAGAACGGCGACGATCAGGGTTTCCAG  
 GAAGGGGAAGATGAGCTCGGGGACGAAGAGGAAGGCGCGGGGACGAGAACGGGCACGGN  
 GAGCAGCAGCCTCAACCGCCGGCAGCAGCAGCAACAGCCCAACAGCAGCGCGGGGCC  
 GCCAAGGAGGCCGNGAAGAGCAGCGGCCACCTCGCTGTTTCGCGGTGACGGTGGCG  
 CCGCCCGNGCGAGGCAGGGCCAGCAGCAGGCGGGAGGGGACGGCAAAACAGAACAGAAA  
 GCGGAGATAAAAAGGGTGTAAAAGACCACGAGAAGATCATGGCCCTGGATATTTT  
 TGAGTACATTGAAGAGGACAGTATAGCAGAGCCAAATCTCTCAGCCCTGTTGAAGAA  
 GAAGATGACACTTCGAGNCCAANGGGTTTGGTCTTGAACCTATAAATTGGGACCTACAT  
 TTTAAATTCAGGAATCCGCCCTCAGTGCTCCTCCTAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004501 unedited  
 GCGGCCGAATCTAGGATCGAGTT  
 TTTTTTTTTTTTTTTTTTAAACAACAAGTTTTTTTTAAAAAAAAGGGCAAACCCCTTT  
 TTTTTTCAAATCAAAGGCAAAACAAAGGAAAAATTTGGGGTTAACCTTCAAGTT  
 GGACCCCCACAATAAGGCACCCAAGTTTACTTTTTAAACAGCCCTTTTACAAACCC  
 CCATTTTTTTTATTAAGTCCCAAGTTTTAGTTTTCAACCCCAATTATCCAATTCATG  
 GTTATTTAAAAAAAACCTTCCAGTTTTGGGCAAAAATATGATTTACCTTACCCCC  
 CCCCTACCCAGGAAACTACAGAGGGGGGGGGGGAATTTGACCCGTCAAAGTTTTAAG  
 GCAATTCAGGGGGCCACTTACCCTTACAGGAATCGGGGGCCAACATTTTTATTAAT  
 GGGGACAAGGACCCCGACTGTATTCTTTGGGAAAAAGGGGGGAGTAAATTCTTAATA  
 AAAAACCCCGGGCAAAACCAATTTACTTTTTGGGGAAAAAAAAGGGCC  
 CTTTTACCAAAAAAAGGACAACCCCGAAAAACCGGGCACATTTTATCGCGCCAG  
 GGGGGGGTTCCTTCACAATCCCCTTTTAAACGGGGCTAAAAATGGGCCACAAGAAAA  
 AAAAAAATCCCCCCCCAGCCTCTAAAAAGGGGACCCCGGGCGCTTCCCTTTGGGGAA  
 GGGTAAAAGGTGCCCCCTAAAAAAAACCGCCCTTCTGGAGGGTTGGGAAAAATG  
 TTCCAACCCCTTATTGGGGACCACAACCCCGGGGAAAGGGGACCCCAAGTCTTCG  
 ACCCAAATACGCCCGCGCCCGGGGTGGCACCAGAAATTTTCTGCACACCCATCG

**Restriction Sites:**

ECoRI-NOT

**ACCN:**

NM\_004501

**Insert Size:**

3300 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\\_004501.3](#), [NP\\_004492.2](#)

**RefSeq Size:** 6789 bp

**RefSeq ORF:** 2421 bp

**Locus ID:** 3192

**UniProt ID:** [Q00839](#)

**Cytogenetics:** 1q44

**Domains:** SAP, SPRY

**Protein Families:** Druggable Genome

**Protein Pathways:** Spliceosome

**Gene Summary:** This gene encodes a member of a family of proteins that bind nucleic acids and function in the formation of ribonucleoprotein complexes in the nucleus with heterogeneous nuclear RNA (hnRNA). The encoded protein has affinity for both RNA and DNA, and binds scaffold-attached region (SAR) DNA. Mutations in this gene have been associated with epileptic encephalopathy, early infantile, 54. A pseudogene of this gene has been identified on chromosome 14. [provided by RefSeq, Jun 2017]

Transcript Variant: This variant (2) uses an alternate splice site in the 5' coding region compared to variant 1, and encodes a shorter protein (isoform b).