

## Product datasheet for **RG201627**

### hnRNP U (HNRNPU) (NM\_004501) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP U (HNRNPU) (NM_004501) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	hnRNP U
Synonyms:	DEE54; EIEE54; GRIP120; hnRNP U; HNRNPU-AS1; HNRPU; pp120; SAF-A; SAFA; U21.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG201627 representing NM\_004501  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAGTTCCTCGCCTGTTAATGTAAAAAGCTGAAGGTGTCGGAGCTGAAAGAGGAGCTCAAGAAGCGAC  
 GCCTTCTGACAAGGGTCTCAAGGCCGAGCTCATGGAGCGACTCCAGGCTGCGCTGGACGACGAGGAGGC  
 CGGGGGCCGCCCGCCATGGAGCCCGGGAACGGCAGCCTAGACCTGGGCGGGGATTCCGCTGGGCGCTCG  
 GGAGCAGGCTCGAGCAGGAGGCCGCGGCCGGCGCATGAAGAGGAGGAGGAAGAGGAAGAGGAGGAGG  
 AAGGAATCTCCGCTCTGGACGGCAGCAGATGGAGCTAGGAGAGGAGAACGGGGCCGCGGGGCGCCGA  
 CTCGGGCCGATGGAGGAGGAGGAGGCCCTCGGAAGACGAGAACGGCAGCAGATCAGGGTTTCCAGGAA  
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 GAAGAGCATCCTATGGTGTGTCAAAAGGCAAAGTGTGTTTGGAGTGAAGGTTACAGAGAAGATCCCAGT  
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 ATGTTACTTGGTGAAGAAGAATTTCTTATGGTATTCTCTAAAAGGAATAAAAACATGCAACTGTGAGA  
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 AGTAGAACTCTCGTATGCTAAGAATGGACAAGATCTTGGCGTTGCCTTCAAAATCAGTAAGGAAGTCTT  
 GCTGGACGGCCTGTTCCCGCATGTTCTTGCCACAACGTGTCAGTTGAATTTAATTTTGGTCAGAAGG  
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 AGGACCAAGGGGCTGAAGAGAAGAAAGATTGTGAAGTGTGATGATGATTGGCTTCCAGGAGCTGGA  
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 GTGGAGGAAGTGGTGGAAATCGGCTATCCATACCCTCGTCCCTGTTTTTCTGGCCGTGGTAGTTACTC  
 AAACAGAGGGAACATAACAGAGGTGGAATGCCAACAGAGGGAACATAACAGAACTTCAAGAGGACGA  
 GGAAACAATCGTGGCTACAAAAATCAATCTCAGGGCTACAACAGTGGCAGCAGGGTCAATCTGGGGTC  
 AGAAGCCATGGAGTCAGCATTATCACCAAGGATATTAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201627 representing NM\_004501  
 Red=Cloning site Green=Tags(s)

```
MSSSPVNVKLLKVSSELKEELKRRRLSDKGLKAELMERLQAALDDEEAGGRPAMEPGNGSLDLGGDSAGRS
GAGLEQAAAAGGDEEEEEEEEEEGISALDGDQMEIGEENGAAGAADSGPMEEEAASEDENGDDQGFQE
GEDELGDEEEGAGDENGHGEQQPPATQQQQPQQRGAAKEAAGKSSGPTSLFAVTVAPPGARQQGQQQA
GGDGKTEQKGGDKKRGVVRPREDHGRGYFEYIEENKYSRAKSPQPPVEEEDHFDDTVVCLDTYNCDLHF
KISRDRLSASSLTMSFAFLWAGGRASYGVSKGKVCFEMKVTEKIPVRHLYTKDIDIHEVRIGWSLTSSG
MLLGEEEF SYGYS LKGIKTCNCETEDYGEKFDENDVITCFANFESDEVELSYAKNGQDLGVAFKISKEVL
AGRPLFPHVLCHNCAVEFNFGQKEKPYFPIPEEYTFIQNVPLEDRVVRGPKGPEEKDCEVMMIGLPGAG
KTTWVTKHAAENPGKYNILGTNTIMDKMMVAGFKKQMATDGLNLTLLQRAPQCLGKFIIEIAARKRNFIL
DQTNVSAQAARRKMCLFAGFQRKAVVVC PKDEDYKQRTQKKA EVEGKDLPEHAVLKMKGNF TLPEVAECF
DEITYVELQKEEAQKLEQYKEESKKALPPEKKQNTGSKKSNKNKSGKNQFNRRGGHRRGGFNMRGGNF
RGGAPGNRRGGYNRRGNMPQRGGGGGGSGGIGYPYPRAPVFPGRGYSNRRGNYNRRGMPNRRGNYNQNFRRGR
GNNRGYKNQSQGYNQWQQGQFWGQK PWSQH YHQYY
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul

## Cloning Scheme:



**ACCN:** NM\_004501

**ORF Size:** 2418 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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

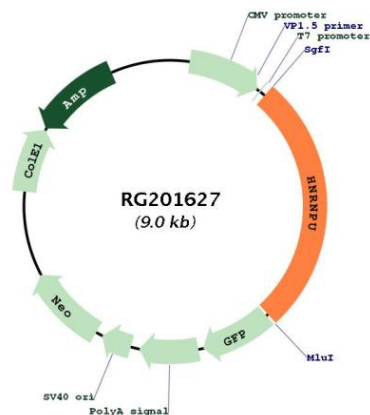
**Domains:** SAP, SPRY

**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]

### Product images:



Circular map for RG201627