

Product datasheet for **RC201627**

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:	Myc-DDK
Symbol:	hnRNP U
Synonyms:	DEE54; EIEE54; GRIP120; hnRNP U; HNRNPU-AS1; HNRPU; pp120; SAF-A; SAFA; U21.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201627 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTTCCTCGCCTGTTAATGTAAAAAGCTGAAGGTGTCGGAGCTGAAAGAGGAGCTCAAGAAGCGAC
 GCCTTCTGACAAGGGTCTCAAGGCCGAGCTCATGGAGCGACTCCAGGCTGCGCTGGACGACGAGGAGGC
 CGGGGGCCGCCCGCCATGGAGCCCGGGAACGGCAGCCTAGACCTGGGCGGGGATTCCGCTGGGCGCTCG
 GGAGCAGGCTCGAGCAGGAGGCCGCGGCCGGCGATGAAGAGGAGGAGGAAGAGGAAGAGGAGGAGG
 AAGGAATCTCCGCTCTGGACGGCAGCAGATGGAGCTAGGAGAGGAGAACGGGGCCGCGGGGCGCCGA
 CTCGGGCCGATGGAGGAGGAGGAGGCCCTCGGAAGACGAGAACGGCAGCAGATCAGGGTTCCAGGAA
 GGGGAAGATGAGCTCGGGGACGAAGAGGAAGGCGCGGGCAGCAGAAACGGGCACGGGGAGCAGCAGCCTC
 AACCGCCGGCAGCAGCAGCAACAGCCCCAACAGCAGCGGGGCCGCCAAGGAGGCCGCGGGGAAGAG
 CAGCGGCCACCTCGCTGTTCCGGGTGACGGTGGCGCCCGCCGGGGCAGGCAGGGCCAGCAGCAGGGC
 GGAGGGGACGGCAAAACAGAACAGAAAGGCGGAGATAAAAAGAGGGGTGTTAAAAGACCACGAGAAGATC
 ATGGCCGTGGATATTTGAGTACATTGAAGAGAACAAGTATAGCAGAGCCAAATCTCCTCAGCCACCTGT
 TGAAGAAGAAGATGAACACTTCGATGACACAGTGGTTTGTCTTGATACTTATAATTGTGATCTACATTTT
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 GAAGAGCATCCTATGGTGTGTCAAAAGGCAAAGTGTGTTTGGAGTGAAGGTTACAGAGAAGATCCCAGT
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 ATGTTACTTGGTGAAGAAGAATTTCTTATGGTATTCTCTAAAAGGAATAAAAACATGCAACTGTGAGA
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 AGTAGAACTCTCGTATGCTAAGAATGGACAAGATCTTGGCGTTGCCTTCAAAATCAGTAAGGAAGTCTT
 GCTGGACGGCCTGTTCCCGCATGTTCTCGCCACAACGTGTCAGTTGAATTTAATTTTGGTCAGAAGG
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 AGGACCAAGGGGCTGAAGAGAAGAAAGATTGTGAAGTGTGATGATGATTGGCTTGCAGGAGCTGGA
 AAAACTACCTGGTACTAAACATGCAGCAGAAAATCCAGGAAATATAACATTCTTGGCACAATACTA
 TTATGGATAAGATGATGGTGGCAGGTTTTAAGAAGCAAATGGCAGATACTGGAAAACGAACACTGTT
 GCAGAGAGCCCCCAGTGTCTTGGGAAATTTATTGAGATTGCTGCCGAAAGAAGCGAAATTTATTCTG
 GATCAGACAAATGTGCTGCTGCTGCCAGAGGAGAAAAATGTGCCTGTTTGCAGGCTTCCAGCGAAAAG
 CTGTTGTAGTTTGCCAAAAGATGAAGACTATAAGCAAAGAACACAGAAGAAAGCAGAAGTAGAGGGGAA
 AGACCTACCAGAACATGCGGTCTCAAAATGAAAGGAACTTTACCTCCAGAGGTAGCTGAGTGCCTT
 GATGAAATAACCTATGTTGAACTTCAGAAGGAAGAAGCCAAAACCTCTTGGAGCAATATAAGGAAGAAA
 GCAAAAAGGCTCTTCCACCAGAAAAGAAACAGAACTGGCTCAAAGAAAAGCAATAAAAATAAGAGTGG
 CAAGAACCAGTTAACAGAGGTGGTGGCCATAGAGGACGTGGAGGATTCAATATGCGTGGTGGAAATTC
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 GTGGAGGAAGTGGTGGAAATCGGCTATCCATACCCTCGTCCCTGTTTTTCTGGCCGTGGTAGTTACTC
 AAACAGAGGGAACATAACAGAGGTGGAATGCCAACAGAGGGAACATAACAGAACTTCAGAGGACGA
 GGAACAATCGTGGCTACAAAAATCAATCTCAGGGCTACAACAGTGGCAGCAGGGTCAATCTGGGGTC
 AGAAGCCATGGAGTCAGCATTATACCAAGGATATTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201627 protein sequence
Red=Cloning site Green=Tags(s)

MSSSPVNVKLLKVSSELKEELKKRRLSDKGLKAELMERLQAALDDEEAGGRPAMEPGNGSLDLGGDSAGRS
GAGLEQAAAAGGDEEEEEEEEEEGISALDGDQMELGEENGAAGAADSGPMEEEEAAASEDENGDDQGFQE
GEDELGDEEEGAGDENHGEQQPPATQQQQPQQRGAAKEAAGKSSGPTSLFAVTVAPPGARQQGQQQA
GGDGKTEQKGGDKKRGVCRPREDHGRGYFEYIEENKYSRAKSPQPPVEEEDHFDDTVVCLDTYNCDLHF
KISRDL SASSL TME SF AFLWAGGRASYGVSKGKVC FEMKVTEKIPVRHLYTKDIDIHEVRIGWSLTTS
MLLGEEEF SYGYS LKG IKT CNCE TEDYGEKFDENDVITCFANFESDEVELSYAKNGQDLGVAFKISKEVL
AGRPLFPHVLCHNCAVEFNFGQKEKPYFPIPEEYTFIQNVPLEDRVGRPKGPEEKDCEVMMIGLPGAG
KTTWVTKHAAENPGKYNILGTNTIMDKMMVAGFKKQMATGKLNLLQRAPQCLGKFIIEIAARKRNFIL
DQTNVSAQAARRKMCLFAGFQRKAVVVC PKDEDYKQRTQKKA EVEGKDLPEHAVLKMKGNF TLPEVAECF
DEITYVELQKEEAQKLEQYKEESKKALPPEKKQNTGSKKSNKNKSGKNQFNRRGGHRRGGFNMRGGNF
RGGAPGNRRGGYNRRGNMPQRGGGGGGGGIGYPYPRAPVFPGRGSYSNRGNYNRRGGMPNRRGNYNQFRGR
GNNRGYKNQSQGYNQWQQGQFWGQKPSQHYHQYY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6139_h02.zip

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

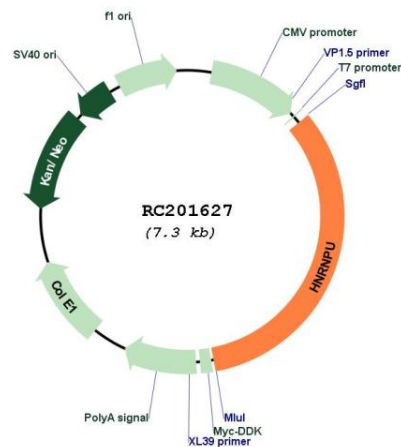
Protein Families: Druggable Genome

Protein Pathways: Spliceosome

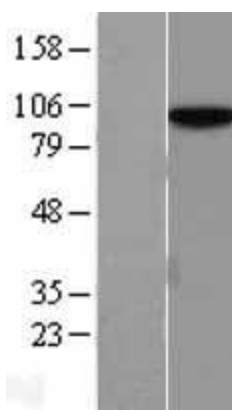
MW: 89 kDa

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]

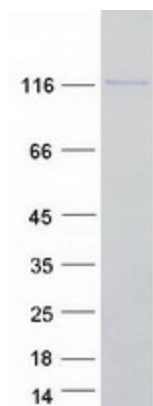
Product images:



Circular map for RC201627



Western blot validation of overexpression lysate (Cat# [LY401431]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201627 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HNRNPU protein (Cat# [TP301627]). The protein was produced from HEK293T cells transfected with HNRNPU cDNA clone (Cat# RC201627) using MegaTran 2.0 (Cat# [TT210002]).