

## Product datasheet for RC201818

### U1A (SNRPA) (NM\_004596) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	U1A (SNRPA) (NM_004596) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	U1A
Synonyms:	Mud1; U1-A; U1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201818 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGTCCCGAGACCCGCCCTAACCACACTATTTATCAACAACCTCAATGAGAAGATCAAGAAGG  
ATGAGCTAAAAAAGTCCCTGTACGCCATCTTCTCCAGTTTGCCAGATCCTGGATATCCTGGTATCAG  
GAGCCTGAAGATGAGGGCCAGGCCTTTGTCATCTTCAAGGAGGTCAGCAGCGCCACCAACGCCCTGCGC  
TCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTATCCAGTATGCCAAGACCGACTCAGATATCA  
TTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGGAGAAGAGGAAGCCCAAGAGCCAGGA  
GACCCCGCCACCAAGAAGGCTGTGCAAGCGGGGAGCCACCCCGTGGTGGGGCTGTCCAGGGGCT  
GTCCCGGGCATGCCGCCGATGACTCAGGCGCCCGCATTATGCACCACATGCCGGCCAGCCGCCCTACA  
TGCCGCCCCCTGGTATGATCCCCCGCCAGGCCTTGCACCTGGCCAGATCCCACCAGGGGCCATGCCCC  
GCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCAGCCTCTTTCTGAGAATCCACCGAATCACATCTTG  
TTCCTACCAACCTGCCAGGAGACCAACGAGCTCATGCTGTCCATGCTTTCAATCAGTTCCTGGCT  
TCAAGGAGTCCGTCTGGTACCCGGCGGCATGACATCGCCTTCGTGGAGTTTGACAATGAGGTACAGGC  
AGGGCAGCTCGCATGCCCTGCAGGGCTTAAAGTACGCAGAAACAACGCCATGAAGATCTCCTTTGCC  
AGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC201818 protein sequence  
Red=Cloning site Green=Tags(s)

MAVPETRPNHTIYINNLEKIKKDELKKSLEYAIFSQFGQILDILVSRSLKMRGQAFVIFKEVSSATNALR  
 SMQGFPHYDKPMRIQYAKTDSIDI AKMKGTFVERDRKREKRPKSQETPATKKAVQGGGATPVVGAVQGP  
 VPGMPPMTQAPRIMHHMPGQPPYMPPPGMIPPPGLAPGQIPPGAMPPQQLMPGQMPPAQPLSENPPNHIL  
 FLTNLPEETNELML SMLFNQFPGFKEVRLVGRHDI AFVEFDNEVQAGAARDALQGFKITQNNAMKISFA  
 KK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6384\\_b11.zip](https://cdn.origene.com/chromatograms/mk6384_b11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004596

**ORF Size:** 846 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\\_004596.5](#)

**RefSeq Size:** 1646 bp

**RefSeq ORF:** 849 bp

**Locus ID:** 6626

**UniProt ID:** [P09012](#)

**Cytogenetics:** 19q13.2

**Domains:** RRM

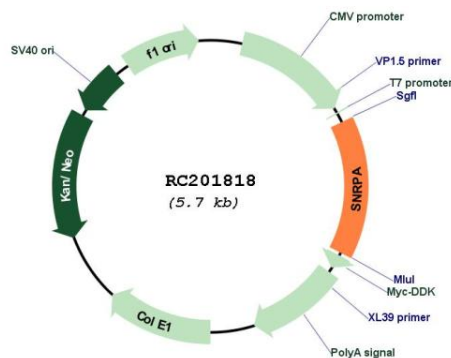
**Protein Families:** Stem cell - Pluripotency

**Protein Pathways:** Spliceosome

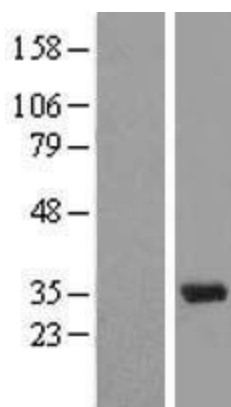
**MW:** 31.3 kDa

**Gene Summary:** The protein encoded by this gene associates with stem loop II of the U1 small nuclear ribonucleoprotein, which binds the 5' splice site of precursor mRNAs and is required for splicing. The encoded protein autoregulates itself by polyadenylation inhibition of its own pre-mRNA via dimerization and has been implicated in the coupling of splicing and polyadenylation. [provided by RefSeq, Oct 2010]

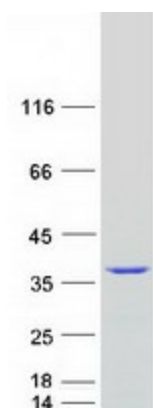
### Product images:



Circular map for RC201818



Western blot validation of overexpression lysate (Cat# [LY417878]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201818 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNRPA protein (Cat# [TP301818]). The protein was produced from HEK293T cells transfected with SNRPA cDNA clone (Cat# RC201818) using MegaTran 2.0 (Cat# [TT210002]).