

Product datasheet for **RG201818**

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:	TurboGFP
Symbol:	U1A
Synonyms:	Mud1; U1-A; U1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201818 representing NM_004596 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGTCCCGAGACCCGCCCTAACCACACTATTTATCAACAACCTCAATGAGAAGATCAAGAAGG
ATGAGCTAAAAAAGTCCCTGTACGCCATCTTCTCCAGTTTGCCAGATCCTGGATATCCTGGTACAG
GAGCCTGAAGATGAGGGCCAGGCCTTTGTCATCTTCAAGGAGGTCAGCAGCGCCACCAACGCCCTGCGC
TCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTATCCAGTATGCCAAGACCGACTCAGATATCA
TTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGGAGAAGAGGAAGCCCAAGAGCCAGGA
GACCCCGGCCACCAAGAAGGCTGTGCAAGCGGGGAGCCACCCCGTGGTGGGGCTGTCCAGGGGCT
GTCCCGGGCATGCCGCCGATGACTCAGGCGCCCGCATTATGCACCACATGCCGGGCCAGCCGCCCTACA
TGCCGCCCCCTGGTATGATCCCCCGCCAGGCCTTGACCTGGCCAGATCCCACCAGGGGCCATGCCCC
GCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCAGCCTCTTTCTGAGAATCCACCGAATCACATCTTG
TTCCTACCAACCTGCCAGGAGACCAACGAGCTCATGCTGTCCATGCTTTCAATCAGTTCCTGGCT
TCAAGGAGGTCGGTACCCGGCGGCATGACATCGCCTTCGTGGAGTTTGACAATGAGGTACAGGC
AGGGCAGCTCGCATGCCCTGCAGGGCTTTAAGATCACGCAGAACCAACGCCATGAAGATCTCCTTTGCC
AAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201818 representing NM_004596
Red=Cloning site Green=Tags(s)

MAVPETRPNHTIYINNLNEKIKKDELKKSLEYAIFSQFGQILDILVSRSLKMRGQAFVIFKEVSSATNALR
 SMQGFPPFYDKPMRIQYAKTDSIDIAMKMGTFVERDRKREKRKPKSQETPATKKAVQGGGATPVVGAVQGP
 VPGMPPMTQAPRIMHHMPGQPPYMPPPGMIPPPGLAPGQIPPGAMPPQQLMPGQMPPAQP LSENPPNHIL
 FLTNLPEETNELML SMLFNQFPGFKEVRLVPRHDI AFVEFDNEVQAGAARDALQGFKITQNNAMKISFA
 KK

TRTRPLE - GFP Tag - V

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: 1626 bp

RefSeq ORF: 849 bp

Locus ID: 6626

UniProt ID: [P09012](#)

Cytogenetics: 19q13.2

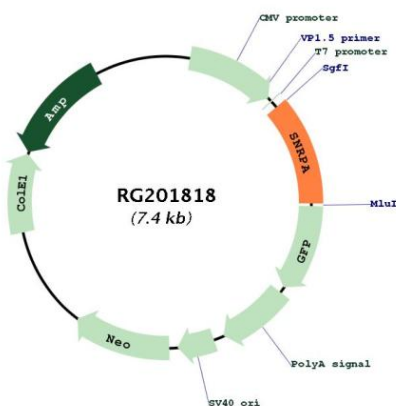
Domains: RRM

Protein Families: Stem cell - Pluripotency

Protein Pathways: Spliceosome

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 RG201818