

Product datasheet for **RG203247**

U2AF35 (U2AF1) (NM_001025204) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: U2AF35 (U2AF1) (NM_001025204) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: U2AF1
Synonyms: FP793; RN; RNU2AF1; U2AF35; U2AFBP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203247 representing NM_001025204
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCAGGAACACTATGATGAGTTTTTTGAGGAGGTTTTTACAGAAATGGAGGAGAAGTATAGGGAAGTAG
 AGGAGATGAACGTCTGTGACAACCTGGGAGACCACCTGGTGGGAAACGTGTACGTCAAGTTTCGCCGTGA
 GGAAGATGCGGAAAAGGCTGTGATTGACTTGAATAACCGTTGGTTAATGGACAGCCGATCCACGCCGAG
 CTGTCACCCGTGACGGACTTCAGAGAAGCCTGCTGCCGTCAGTATGAGATGGGAGAATGCACACGAGGCC
 GCTTCTGCAACTTCATGCATTTGAAGCCATTTCCAGAGAGCTGCGGCGGAGCTGTATGGCCGCCGTCG
 CAAGAAGCATAGATCAAGATCCCGATCCCGGAGCGTCGTTCTCGGTCTAGAGACCGTGGTCTGGCGGT
 GGCGGTGGCGGTGGTGGAGGTGGCGGCGGACGGAGCGTGACAGGAGCGGTGCGAGATCGTGAAGAT
 CTGGGCGATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203247 representing NM_001025204
 Red=Cloning site Green=Tags(s)

MQEHYDEFFEEVFTMEEEKYREVEEMNVCDNLGDHLVGNVYVKFRREEDAIEKAVIDLNNRWFNGQPIHAE
 LSPVTDFREACCRQYEMGECTRGGFCNFMHLKPI SREL RREL YGRRRKKHRSRSRSRERRSRSDRGRGG
 GGGGGGGGGRERDRRRSRDRERSGRF

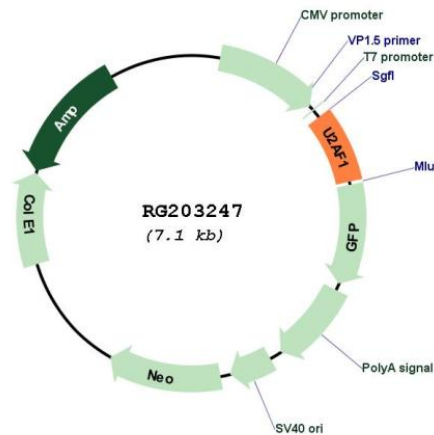
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001025204

ORF Size: 501 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:	<ol style="list-style-type: none">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:	<u>NM_001025204.1, NP_001020375.1</u>
RefSeq Size:	1038 bp
RefSeq ORF:	504 bp
Locus ID:	7307
UniProt ID:	<u>Q01081</u>
Cytogenetics:	21q22.3
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Spliceosome
Gene Summary:	This gene belongs to the splicing factor SR family of genes. U2 auxiliary factor, comprising a large and a small subunit, is a non-snRNP protein required for the binding of U2 snRNP to the pre-mRNA branch site. This gene encodes the small subunit which plays a critical role in both constitutive and enhancer-dependent RNA splicing by directly mediating interactions between the large subunit and proteins bound to the enhancers. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]