

Product datasheet for **RG212271**

U2AF65 (U2AF2) (NM_007279) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	U2AF65 (U2AF2) (NM_007279) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	U2AF2
Synonyms:	U2AF65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG212271 representing NM_007279
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGACTTCGACGAGTTCGAGCGGCAGCTCAACGAGAATAACAAGAGCGGGACAAGGAGAACCGGC
 ATCGGAAGCGCAGCCACAGCCGCTCTCGAGCCGGGACCCAAACGCCGAGCCGAGCCGCGACCGGCG
 CAACCGGACCAGCGGAGCGCCTCCCGGACAGCGACGACGACGAAACCTTTGACCAGAGGCGCTAAA
 GAGGAGCACGGTGGACTGATTCGTTCCCGCCACGAGAAGAAGAAGGTCCGTAAATACTGGGACG
 TGCCACCCAGGCTTTGAGCACATCACCCCAATGCAAGTACAAGGCCATGCAAGCTGCGGGTTCAGATTCC
 AGCCACTGCTCTTCTCCCAACATGACCCCTGACGGTCTGGCTGTGACCCCAACGCCGTTGCCGTTGGTC
 GGGAGCCAGATGACCAGACAAGCCCGGCGCCTCTACGTGGCAACATCCCCTTTGGCATCACTGAGGAGG
 CCATGATGGATTTCTTCAACGCCAGATGCGCCTGGGGGGCTGACCCAGGCCCTGGCAACCCAGTGT
 GGCTGTGCAGATTAACCAGGACAAGAATTTTGCCTTTTGGAGTCCGCTCAGTGGACGAGACTACCCAG
 GCTATGGCCTTTGATGGCATCATCTCCAGGGCCAGTCACTAAAGATCCGAGGCCCTCACGACTACCCAGC
 CGCTTCTGCGATGTCAGAGAACCCTCCGCTATGTGCCTGGGTTGTGTCCACTGTGGTCCCGGACTC
 TGCCACAAGCTGTTTCATCGGGGCTTACCCAACCTGAAACGATGACCAGGTCAAAGAGCTGCTGACA
 TCCTTTGGGCCCTCAAGGCCTTCAACCTGGTCAAGGACAGTCCACGGGGCTCTCAAGGGCTACGCT
 TCTGTGAGTACGTGGACATCAACGTACGGATCAGGCCATTGCGGGGCTGAACGGCATGCAGCTGGGGGA
 TAAGAAGTGTGGTCCAGAGGGCGAGTGTGGGAGCAAGAATGCCACGCTGGTGAAGCCCCGAGCACC
 ATCAATCAGACGCTGTGACCTGCAAGTGCAGGGCTTGTGAGTCCCAGGTGCAGATGGGCGGCCACC
 GACTGAGGCTGTGCTCATGAACATGGTGTGCTGAGGAGCTGTGACGACGAGGAGTATGAGGA
 GATCGTGGAGGATGTGCGGGACGAGTGCAGCAAGTACGGGCTTGTCAAGTCCATCGAGATCCCCCGCCT
 GTGGACGGCTCGAGGTGCCCGGCTGCGAAAGATCTTTGTGGAGTTCACCTCTGTGTTGACTGCCAGA
 AAGCCATGACGGGCTGACGGGCGCAAGTTCGCCAACAGAGTGGTTGTCAAAAATACTGTACCCCGA
 CTCTTATACCGCCGGGACTTCTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212271 representing NM_007279
 Red=Cloning site Green=Tags(s)

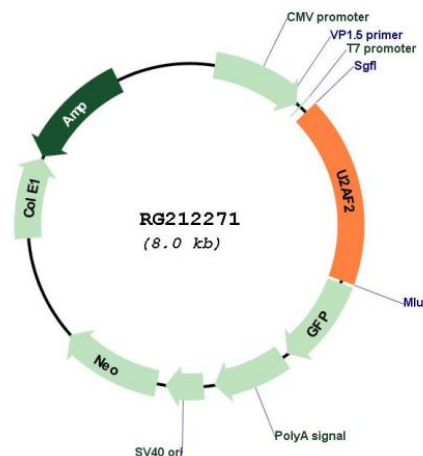
MSDFDEFERQLNENKQERDKENRHRKRSHSRSRDRKRRSRDRRRNRDQRSASRDRRRRSKPLTRGAK
 EEHGGLIRSPRHEKVKRKYWDVPPPGFEHITPMQYKAMQAAGQIPATALLPTMTPDGLAVTPTVPV
 GSQMRQARRLYVGNIPFGITEEAMMDFNAQMRLGGLTQAPGNPVLAVQINQDNFAFLFRSVDETTQ
 AMAFDGIIFQGQSLKIRRPDYQPLPGMSENPSVYVPGVVSTVVPDSAHKLFIGGLPNYLNDQVKELLT
 SFGPLKAFNLVKDSATGLSKGYAFCEYVDINVTQAIAGLNGMQLGDKLLVQRASVGAKNATLVSPST
 INQTPVTLQVPGLMSSQVMGGHPTEVLCLMNMVLP EELLDD EYEEIVEDVRDECSKYGLVKSIEIPRP
 VDGVVEVPGCGKIFVEFTSVFDCQKAMQGLTGRKFANRVVVTKYCDPDSYHRRDFW

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Plasmid Map:


ACCN: NM_007279

ORF Size: 1425 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_007279.2](#), [NP_009210.1](#)

RefSeq Size: 3148 bp

RefSeq ORF: 1428 bp

Locus ID: 11338

UniProt ID: [P26368](#)

Cytogenetics: 19q13.42

Protein Pathways: Spliceosome

Gene Summary: U2 auxiliary factor (U2AF), comprised of 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 U2AF large subunit which contains a sequence-specific RNA-binding region with 3 RNA recognition motifs and an Arg/Ser-rich domain necessary for splicing. The large subunit binds to the polypyrimidine tract of introns early during spliceosome assembly. Multiple transcript variants have been detected for this gene, but the full-length natures of only two have been determined to date. [provided by RefSeq, Jul 2008]