

Product datasheet for **MG218412**

U2af1 (NM_024187) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	U2af1 (NM_024187) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	U2af1
Synonyms:	35kDa; 2010107D16Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218412 representing NM_024187 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAATACTTGGCCTCCATCTTCGGCACGAAAAAGACAAAGTCAACTGTTTCATTTTATTTCAAAA
TCGGAGCATGTCGTCATGGAGACAGATGTTCTCGGTTGCACAATAAACCAACCTTTAGCCAGACCATTGC
CCTTTGAACATTTACCGTAACCCTCAAACCTCTCCAGTCTGCTGACGGTTTGCCTGTGCTGTGAGC
GACGTGGAGATGCAGGAGCACTATGATGAGTTCTTTGAGGAAGTCTTCACTGAGATGGAAGAGAAGTACG
GGGAAGTCGAGGAGATGAACGTCTGCGACAACCTAGGGGACCACCTGGTGGGAACGTGTATGTCAAGTT
TCGACGTGAGGAGATGCAGAGAAAGCCGTGATCGACTTGAATAACCGTTGGTTTAAATGGACAGCCGATC
CATGCAGAGCTGTCCCCAGTAACCTGACTTCAGGGAAGCCTGCTGCCGCCAGTATGAAATGGAGAGTGCA
CAAGAGGGGGCTTCTGCAACTTCATGCATTTGAAGCCCATCTCAAGAGAGCTACGACGGGAGCTGTATGG
GCGCCGGCGCAAGAAGCATAGATCCAGGTCCCAGTCCAGGGAACGGCGTTCCCGATCCAGAGACCGTGG
CGCGGTGGTGGAGGTGGAGGTGGAGGTGGCGGAGGACGGGAGCGTGACAGGAGGCGGTCAAGAGACCGGG
AGAGATCTGGACGATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218412 representing NM_024187
 Red=Cloning site Green=Tags(s)

MAEYLASIFGTEKDKVNCsfYFKIGACRHGDRCSRLHNKPTFSQTIALLNiYRNPQSSQSADGLRCAVS
 DVEMQEHYDEFEEVFTEmEEKYGEVEEMNVCDNLGDHLVGNVYVKFRREEDAekAVIDLNNRWFNGQPI
 HAELSPVTDfREACCRQYEMGECTRGGFcNFMHLKPIsRELrRELYGRRRkKHRSRSRSRERRSRsRDRG
 RGGGGGGGGGGGRERDRRRSRDRERSGRF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024187

ORF Size: 717 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_024187.4](#), [NP_077149.2](#)

RefSeq Size: 907 bp

RefSeq ORF: 720 bp

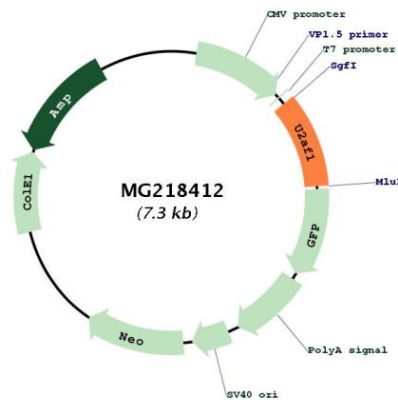
Locus ID: 108121

UniProt ID: [Q9D883](#)

Cytogenetics: 17 B1

Gene Summary: Plays a critical role in both constitutive and enhancer-dependent splicing by mediating protein-protein interactions and protein-RNA interactions required for accurate 3'-splice site selection. Recruits U2 snRNP to the branch point. Directly mediates interactions between U2AF2 and proteins bound to the enhancers and thus may function as a bridge between U2AF2 and the enhancer complex to recruit it to the adjacent intron (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218412