

Product datasheet for **RG223006**

USF2 (NM_207291) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USF2 (NM_207291) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USF2
Synonyms:	bHLHb12; FIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223006 representing NM_207291 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATGCTGGACCCGGGTCTGGATCCCGCTGCCTCGGCCACCGTGTGCGCCGCCAGCCACGACA
AGGGACCCGAGGCGGAGGAGGGCGTCGAGCTGCAGGAAGGCGGGACGGCCAGGAGCGGAGGAGCAGAC
AGCGGTGGCCATCACCAGCGTCCAGCAGGCGGCGTTTCGGCGACCACAACATCCAGTACCAGTTCGCGACA
GAGACAAATGGAGGACAGGCTGTGATCCAAAATCCCTTCAGCAATGGTGGCAGTCCGGCGGCCGAGGCTG
TCAGCGGGGAGGCACGATTTGCCTATTTCCAGCGTCCAGTGTGGGAGATACTACGGCTGTGTCCGTACA
GACCACAGACCAGAGCTTGCAGGCTGGAGGCCAGTTCTACGTATGATGAGCAGCCAGGATGTGCTTCAG
ACAGGAACACAGAGGACGATCGCCCCCGACACACCCCTTACTCTCCAAAATTGATGGAACCAGAACAC
CCCGAGATGAGAGGAGAAGAGCCAGCACAACGAAGTGGAGCGGAGGCGGAGGGACAAGATCAACAACCTG
GATCGTCCAGCTTTCGAAAATCATTCCAGACTGTAAACGCAGACAACAGCAAGACGGGAGCGAGTAAAGGA
GGGATCCTGTCCAAGGCTGCGATTACATCCGGGAGTTGCGCCAGACCAACCAGCGCATGCAGGAGACCT
TCAAAGAGGCCGAGCGGCTGCAGATGGACAACGAGCTCCTGAGGCAGCAGATCGAGGAGCTGAAGAATGA
GAACGCCCTGCTTCGAGCCAGCTGCAGCAGCACAACCTGGAGATGGTGGCGAGGGCACCCGGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223006 representing NM_207291
 Red=Cloning site Green=Tags(s)

MDMLDPGLDPAASATAAAAAASHDKGPEAEEGVELQEGGDGPGAEETAVAITSVQQAAGFDHNIQYQFRT
 ETNGGQAVIQNPF SNGGSPAEEAVSGEARFAYFPASSVGDTTAVSVQTTDQSLQAGGQFYMMTPQDVLQ
 TGTQRTIAPRTHPYSPKIDGTRTPRDERRRAQHNEVERRRRDKINNWIVQLSKIIPDCNADNSKTGASKG
 GILSKACDYIRELRQTNQRMQETFKEAERLQMDNELLRQQIEELKNENALLRAQLQHNLEMVGEGRQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207291

ORF Size: 837 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_207291.3](#)

RefSeq Size: 1531 bp

RefSeq ORF: 840 bp

Locus ID: 7392

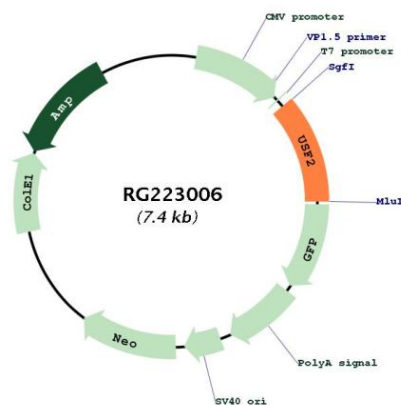
UniProt ID: [Q15853](#)

Cytogenetics: 19q13.12

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a member of the basic helix-loop-helix leucine zipper family of transcription factors. The encoded protein can activate transcription through pyrimidine-rich initiator (Inr) elements and E-box motifs and is involved in regulating multiple cellular processes. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG223006