

Product datasheet for **RG219106**

USF1 (NM_207005) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USF1 (NM_207005) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USF1
Synonyms:	bHLHb11; FCHL; FCHL1; HYPLIP1; MLTF; MLTFI; UEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219106 representing NM_207005 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGGGCAGCAGAAAACAGCTGAAACGGAAGAGGGGACAGTGCAGATTCAGGAAGGTGCAGTGGCTA
CTGGGGAAGACCCAACCAGTGTGGCTATTGCCAGCATCCAGTCAGCTGCCACCTCCCTGACCCCAACGT
CAAGTACGTCTTCCGAAGTGAAGTGGGGCCAGGTGATGTACAGGGTATCCAGGTGTCTGAGGGCAG
CTGGATGGCCAACTGAGGGAAGTGGCGCCATCAGTGGCTACCCTGCCACTCAATCCATGACCCAGGCGG
TGATCCAGGGTGTCTTACCAGTATGATGCAGTTGACACGGAGGGGACAGCTGCTGAGACGCACATAAC
TTACTTCCCAGCACGGCAGTGGGAGATGGGGCAGGGGTACCACATCGGGGAGTACAGCTGCTGTGTGT
ACTACCCAGGGCTCAGAGGCACTGCTGGGGCAGGCGACCCCTCCTGGCACTGGTCAATCTTTGTGATGA
TGTCAACCAAGAAGTACTGCAGGGAGGAAGCCAGCGCTCAATTGCCCTAGGACTCACCTTATCCCC
GAAGTCAGAAGCTCCCCGGACGACTCGGGATGAGAAACGAGGGCTCAGCATAATGAAGTGGAGCGTCGC
CGCCGAGACAAGATCAACAAGTGGATCGTGCAGCTCTCCAAGATAATCCCAGACTGCTCTATGGAGAGCA
CCAAGTCTGGCCAGAGTAAAGTGGGATTCTATCCAAGCTTGTGATTATCCAGGAGCTTCGGCAGAG
TAACCACCGCTTGTCTGAAGAAGTGCAGGACTTGACCAACTGCAGCTGGACAATGACGTGCTTCGACAA
CAGGTGGAAGATCTTAAAAACAAGAATCTGCTGCTTCGAGCTCAGTTGCGGCACCCAGGATTAGAGGTGCG
TCATCAAGAATGACAGCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219106 representing NM_207005
 Red=Cloning site Green=Tags(s)

MKGQQKTAETEEGTVQIQEGAVATGEDPTSVAIASIQSAATFPDPNVKYVFRTEGGQVMYRVIQVSEGO
 LDGQTEGTGAISGYPATQSMQAVIQGAFSDDDAVDTEGTAETHYTFPSTAVGDGAGGTTSGSTA
 AVVTTQGEALLGQATPPGTGQFFVMMSPQEVLQGGSQRSIAPRTHPYSPKSEAPRTRDEKRRAQHNE
 VERRRDKINNWIVQLSKIIPDCSMESTKSGQSKGGILSKACDYIQELRQSNHRLSEELQGLDQLQLD
 NDVLRQ QVEDLKNKNLLLRAQLRHHGLEVVIKNDSN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207005

ORF Size: 930 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_207005.1](#), [NP_996888.1](#)

RefSeq Size: 1800 bp

RefSeq ORF: 756 bp

Locus ID: 7391

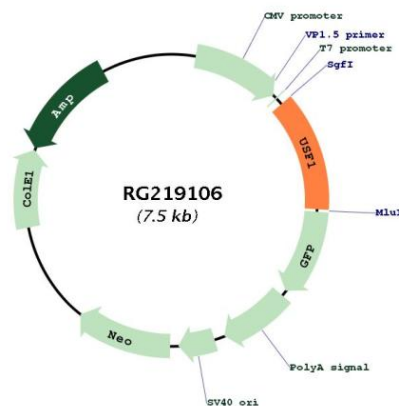
UniProt ID: [P22415](#)

Cytogenetics: 1q23.3

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a member of the basic helix-loop-helix leucine zipper family, and can function as a cellular transcription factor. The encoded protein can activate transcription through pyrimidine-rich initiator (Inr) elements and E-box motifs. This gene has been linked to familial combined hyperlipidemia (FCHL). Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been defined on chromosome 21. [provided by RefSeq, Feb 2013]

Product images:



Circular map for RG219106