

## Product datasheet for **SC308360**

### USF1 (NM\_207005) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USF1 (NM_207005) Human Untagged Clone
Tag:	Tag Free
Symbol:	USF1
Synonyms:	bHLHb11; FCHL; FCHL1; HYPLIP1; MLTF; MLTFI; UEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_007122.3  
 ATGGAGATACCTAGGCCGGGAGAGGGAGAACACAGTTGGAGAAAAATCGGCAGCTGAGACG  
 GCCTTGGCCGGACTTAGCACTCAGGCCTGTGAATCAGGAAATACAAAGACCTCCAAAAA  
 GGACCAGTTCTCGGATGTGCCCTCACAGAGAGATGAAGGGGAGCAGAAAACAGCTG  
 AAACGGAAGAGGGGACAGTGCAGATTAGGAAGGTGCAGTGGCTACTGGGAAGACCCAA  
 CCAGTGTGGCTATTGCCAGCATCCAGTCAGCTGCCACCTCCCTGACCCCAACGTC AAGT  
 ACGTCTTCCGAAGTGAATGGGGCCAGGTGATGTACAGGGTGATCCAGGTGTCTGAGG  
 GGCAGCTGGATGGCCAAACTGAGGGAAGTGGCGCCATCAGTGGCTACCCTGCCACTCAAT  
 CCATGACCAGGCGGTGATCCAGGGTGCTTTCACCACTGATGATGCAGTTGACACGGAGG  
 GGACAGCTGCTGAGACGCACTATACTTACTTCCCCAGCACGGCAGTGGGAGATGGGGCAG  
 GGGGTACCACATCGGGGAGTACAGCTGCTGTTGTTACTACCCAGGGCTCAGAGGCACTGC  
 TGGGGCAGGCGACCCCTCCTGGCACTGGTCAATTCTTTGTGATGATGTCACCACAAGAAG  
 TACTGCAGGGAGGAAGCCAGCGCTCAATTGCCCTAGGACTCACCTTATCCCCGAAGT  
 CAGAAGCTCCCCGACGACTCGGGATGAGAAACGCAGGGCTCAGCATAATGAAGTGGAGC  
 GTCGCCGCCGAGACAAGATCAACAAGTGGATCGTGCAGCTCTCCAAGATAATCCCAGACT  
 GCTCTATGGAGAGCACCAAGTCTGGCCAGAGTAAAGGTGGGATTCTATCCAAAGCTGTG  
 ATTATATCCAGGAGCTTCGGCAGAGTAACCACCGCTTGTCTGAAGAACTGCAGGGACTTG  
 ACCAACTGCAGCTGGACAATGACGTGCTTCGACAACAGGTGGAAGATCTTAAAAACAAGA  
 ATCTGCTGCTTCGAGCTCAGTTGCGGCACCACGGATTAGAGGTCGTCATCAAGAATGACA  
 GCAACTAACTATGGGGATTACAGGGCTTTGGGCCAAGAAGTGCAGATAGCCCAGGAGCA  
 ACAGCCTAATCCCGTGCCCTTCTTCACTGCCCCACTTCTGGCATGGGACAGGGGGAA  
 GTTCAGAAGGTGTGCTTGAAGTGAAGTGCAGCCTTGATATGGCGGCTGCAGTGGTGTGAA  
 ACACACAATGTGGACGTGCAGTGCAGCCTTGCCACCCCAACCATGCAGCCCTGGGCC  
 CTTGTGCTCCTCTCGCACAAATGCATGTGCTGTCTCCATGCTGGATACTGGACACACTAAA  
 CTCTGGGGCTTGTCTGTGCTTAGAGTGCCAGCAGAGGTTTGTGACAGGTGATG  
 CTCTGGCTTGCCCAGGACTCTGGCACTTCCATTGGTTCTTCTTTCCCTGGAGCTGAGG  
 TTTAGATGTGCAACCTGTGGCTCAGGGGAGCAAGCTTACACAAGAAGTGAAGGAAGGATG  
 TTTAGCAGTGGCTGGTCCCATGAAGAGGAGATTGGCCAGTGAAGCTGAGGCCATGC  
 AGACATCTCTGGAGCCAGAGAGAACAACAGGCAGGGGCCACTTGGGGCCTTCCCCTTG  
 TGGGGTCTGTTTAAAGATAA  
 AATTGTTCAAAGCCAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_207005

**Insert Size:** 1800 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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]

Transcript Variant: This variant (2, also known as USF1/BD) uses an alternate splice site in its 5' UTR, and uses a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus, compared to isoform 1.