

Product datasheet for **SC108471**

USF2 (NM_003367) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USF2 (NM_003367) Human Untagged Clone
Tag:	Tag Free
Symbol:	USF2
Synonyms:	bHLHb12; FIP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_003367 edited
 CCCGCCCCCATGGACATGCTGGACCCGGTCTGGATCCCCTGCCTCGGCCACCGCT
 GCTGCCGCCGCCAGCCACGACAAGGGACCCGAGGCGGAGGAGGGCGTCCGAGCTGCAGGAA
 GGCGGGGACGGCCAGGAGCGGAGGAGCAGACAGCGGTGGCCATCACCAGCTCCAGCAG
 GCGGCGTTCGGCGACCACAACATCCAGTACCAGTTCGCCACAGAGACAAATGGAGGACAG
 GTGACATACCCCGTAGTCCAGGTGACTGATGGTCAGCTGGACGGCCAGGGCGACACAGCT
 GGCGCCGTACGCGTCGTGTCCACCGCTGCCTTCGCGGGGGGGCAGCAGGCTGTGACCCAG
 GTGGGTGTGGACGGGGCAGCCCAGCGCCCGGGCCCGCCGCTGCCTCTGTGCCCCAGGT
 CCTGCAGCGCCCTTCCCCTGGCTGTGATCCAAAATCCCTTCAGCAATGGTGGCAGTCCG
 GCGGCCGAGGCTGTACGCGGGGAGGCACGATTTGCCTATTTCCAGCGTCCAGTGTGGGA
 GATACTACGGCTGTGTCGTACAGACCAGACCAGAGCTTGCAGGCTGGAGGCCAGTTC
 TACGTCATGATGACGCCCCAGGATGTGCTTCAGACAGGAACACAGAGGACGATCGCCCC
 CGGACACACCCTTACTCTCCAAAATTGATGGAACCAGAACCCCGAGATGAGAGGAGA
 AGAGCCCAGCACAAAGTGGAGCGGAGGCGGAGGGACAAGATCAACAACCTGGATCGTC
 CAGCTTTGAAAAATCATTCCAGACTGTAAACGACAGACAACAGCAAGACGGGAGCGAGTAA
 GGAGGGATCCTGTCCAAGGCCTGCGATTACATCCGGGAGTTGCGCCAGACCAACCAGCGC
 ATGCAGGAGACCTTCAAAGAGGCCGAGCGGCTGCAGATGGACAACGAGCTCCTGAGGCGAG
 CAGATCGAGGAGCTGAAGAATGAGAACGCCCTGCTTCGAGCCCAGCTGCAGCAGCACAAC
 CTGGAGATGGTGGGCGAGGGCACCCGGCAGTGACGCCCGCCACCACCACGAGCCGCCGC
 CGCCCACGCCGGCCTCTGCTGCCCCCTTCCCAGCCCTTAGCACAGAGAGGGACACATGC
 CCCTCCCCAGCTGCGTTTTTTTATAGTAGATTTTTAACAAAAACGGGGAGAAAATATG
 CATTTCTGTGGATACAGTGCCCACCGCCCTCCTCCACTTGAAACGGTATCCTCCCTGCC
 CATCCGTGTCTGTGCGCCCTTCCCAGCCCTACTAAGCCCCGGCATTCTAGTGGTC
 TCACCTGGAGGCAAGAGGGAGGGGACAGAGGCCCTGCCAGTCCCCTGCCTCCTGCTCT
 CTGGAGGTAAGTGCAGCAGGGTGTGATGGGAAGGAGGGGAGCCTTTGGGGGGCCACCCGG
 GGCCTGGACCTATGCAGGGAGGCCACGTCCCACCCACCTCTTGTCTGGGTCCCTGCT
 CCCCTTTGGGGTGTGTGTGTGTGTGTATTTTCTTTATGAAAAAATTGACAAAAAAA
 AATAGAGAGAGAGGTATTTAACTGCAATAAACTGGCCCCATGTGGCCCCCGCCTTGAAAA
 AAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003367 unedited
 GGGGGGGGGGNNNNNTTTCTNNNNNNGGTTCAAATTTGTATACGACTCACTATAGG
 CGGCCGCGNAATTCGCACCAGCCCGCCCCCTGGNACTGCTGGACCCGGGGCTGGATC
 CCGCTGCCTCGGCCACCGCTGCTGCCGCCGCCAGCCACGACAAGGGACCCGAGGCGGAGG
 AGGGCGTCGAGCTGCAGGAAGGCGGGGACGGCCAGGAGCGGAGGAGCAGACAGCGGTGG
 CCATCACCAGCGTCCAGCAGGCGGCGTTTCGGCGACCACAACATCCAGTACCAGTTCGCA
 CAGAGACAAATGGAGGACAGGTGACATACCGGTAGTCCAGGTGACTGATGGTCAGCTGAG
 ACGGCCAGGGCGACACAGCTGGCGCCGTACGCGTGTGTCCACCCTGCCTTCGCGGGGG
 GGCAGCAGGCTGTGACCCAGGTGGTGTGGACGNGCAGCCAGCGCCCGGGCCCGCCG
 CTGCCTCTGTGCCCCAGGCTCTGCAGCGCCCTCCCCTGGCTGTGATCCAAAATCCCT
 TCAGCAATGGTGGCAGTCCGGCGCCGAGGCTGTACGCGNGAGGCACGATTTGCCTATT
 TCCCAGCGTCCAGTGTGGGAGATACTACGGCTGTGTCGTACAGACCACAGACCAGAGCT
 TGCANGCTGGAGGCCAGNTCTACGTCATGATGACGCCCCAGATGTGCTTACAGACAGGAC
 ACAGAGGACGATCGCCCCGGACACACCCTTACTCTNNNCAAAATGATGGAACCAGNNA
 CACCCGAGATGAGAGGAGAAGAGCCAGCACANCAANTGGANCGNNAGCGAGGNACCA
 GAATCACACTGGATCGTNCAGCTTCGAAAATCATTACAGACTGTNNACGACAGACAGCA
 GACGGGAGCGAGTAGGGAGGGATACTGTCCAGCCTGCGATACTNNNCGAGTGCGCCAG
 ACAACCACG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003367 unedited NNGGGGGCTCGGGGCCCTGGGGCCGTTTATGCAGTTAATACCTCTCTCTATTTTTTTT TTGTCAATCTTTTCCATAAAGGAAAATAAAACACACACACACACCCCAAGGGAGCAG GGACCCAGAAACAAGAGGTGGGTGGGACGTGGNCCTCCCTGCATAGGTCCAGGCCCGG GTGGCCCCCAAGGCTCCCCTCCTTCCCATCAGCACCTGTCTCAGTACCTCCAGAGAG CAGGAGGCAGCGGGACGTGGCAGGGCCTCTGTCCCCTCCCTCTTGCTCCAGGTGAGACC ACTAGAAGTGCCGGGGCTTAGTGAGGGCCGGGAGAAGGGCGACAGACAGACGGATGGGCA GGGAGGATACCGTTTCCAAGTGGAGGAGGGCGGTGGGCACTGTATCCACAGAAATGCATT ATTTCTCCCCGTTTTTTGTAAAAATCTACTATAAAAAACGCAGCTGGGGGAGGGGCAT GTGTCCCTCTCTGTGCTAAGGGCTGGGGAAGGGGGCAGCAGAGGCCGGCGTGGGCGGCG CGGCTGCGTGGTGGTGGCGGGGATACTGCCGGGTGCCCTCGCCACCATCTCCAGTTG TGCTGCTGCAGCTGGGCTCGAAGCAGGGCGTTCTATTCTTCAGCTCCTCGATCTGCTGC CTCACGAGCTCGTTGCCATCTGCAGCCGCTCGGCCTTTTAAAGTCTCCTGCATGCGC TGGGTGGTCTGGCGCAACTCCCGGATGTAATCGCAGCCCTTGAACAGGATCCCTCCTTTA CTCGCTCCCGTCTTGCTGTTGTCCGCGTTACAAGGCTGGTATGATCTTGAAGCTGGACG ATCCATTGTTGACCTGTCCCTCAC
Restriction Sites:	NotI-NotI
ACCN:	NM_003367
Insert Size:	1700 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	<ol style="list-style-type: none"> 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_003367.2 , NP_003358.1
RefSeq Size:	1732 bp

RefSeq ORF:	1041 bp
Locus ID:	7392
UniProt ID:	<u>Q15853</u>
Cytogenetics:	19q13.12
Domains:	HLH
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript, and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>