

Product datasheet for **MC218268**

Usf1 (BC049784) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Usf1 (BC049784) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Usf1
 Synonyms: bHLHb11
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC049784
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGGGCAGCAGAAAACAGCTGAAACCGAAGAGGGAAACAGTGCAGATTCAGGAAGGGCAGTGGCTA
 CTGGAGAGGACCAACTAGTGTAGCTATCGCCAGCATCCAGTCAGCTGCCACTTTCTGACCCCAACGT
 CAAGTACGTCTTCCGAAGTGAATGGGGCCAGGTGATGTACAGGGTATCCAGGTGTAGAGGGGCAG
 CTGGATGGCCAGACAGAGGGCTCTGGCGCCATCAGTGGTTACCCTGCCACTCAGTCTATGACCCAGGCAG
 TGATCCAGGGAGCTTTCACCACTGACGATGCCGTTGACACGGAGGGAGCAGCTGTGAGACACATTATAC
 ATATTTCCCAGCACCGCAGTGGGAGATGGGTCAGGGGGCACCACATCTGGGAGTACAACAGCTGTTGTT
 ACCACCCAGGGCTCAGAGGCACTACTGGGGCAGGCAACCCCGCCAGCACAGGTCAATTCTTTGTGATGA
 TGTACCACAAGAAGTATTGCAGGGAGGGTCCAGCGATCGATTGCCCCAGGACCCACCCTTATCCCC
 GAAGTCAGAGGCTCCCAGGACAACACGAGATGAGAAACGGAGGGCTCAACATAACGAAGTGGAGCGCCGC
 CGCCGGGACAAGATCAACAACCTGGATTGTACAGCTGTCCAAAATCATCCAGACTGCTCTATGGAGAGCA
 CCAAGTCTGGCCAGAGTAAAGGTGGAATCCTGTCCAAAGCCTGTGATTATATCCAGGAGCTGCGGCAGAG
 CAACCACCGCTGTCTGAAGAGCTGCAGGGTTAGATCAGTTGCAGCTGGACAACGATGTGCTCCGGCAA
 CAGGTCAGACTAACTCCAGGATGGCCCCCTTGGCAGCCCCGTAGCCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: BC049784
 Insert Size: 891 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).
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:	<u>BC049784</u> , <u>AAH49784</u>
RefSeq Size:	1926 bp
RefSeq ORF:	890 bp
Locus ID:	22278
Cytogenetics:	1 79.4 cM
Gene Summary:	This protein encoded by this gene is a member of the basic-Helix-Hoop-Helix-Leucine zipper (bHLH-LZ) family and encodes a protein that can act as a transcription factor. Studies indicate that the basic region interacts with DNA at E-Box motifs, while the helix-loop-helix and leucine zipper domains are involved in dimerization with different partners. This protein is involved in a wide array of biological pathways, including cell cycle regulation, immune response, and responses to ultraviolet radiation. Mice lacking most of the coding exons of this gene often lacked both whiskers and nasal fur, and were prone to epileptic seizures, while mice lacking both this gene and another family member, Usf2, displayed embryonic lethality (PMID:9520440). Mutations in the human ortholog of this gene have been associated with Familial Combined Hyperlipidemia (FCHL) in humans. Pseudogenes of this gene are found on chromosome 11 and the X chromosome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2015]