

Product datasheet for **SC208296**

XBP1 (NM_001079539) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: XBP1 (NM_001079539) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: XBP1
Synonyms: TREB-5; TREB5; XBP-1; XBP2
ACCN: NM_001079539
Insert Size: 645 bp
Insert Sequence: >SC208296 3'UTR clone of NM_001079539

The sequence shown below is from the reference sequence of NM_001079539. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAACTCTTTCCCCAGCTGATTAGTGTCTAAGGAATGATCCAATACTGTTGCCCTTTTCTTGACTATTA
CACTGCCTGGAGGATAGCAGAGAAGCCTGTCTGTACTTCATTCAAAAAGCCAAAATAGAGAGTATACAG
TCCTAGAGAATTCTCTATTTGTTTCAGATCTCATAGATGACCCCAAGGATTGTCTTTTGACATCCAGC
AGTCCAAGGTATTGAGACATATTACTGGAAGTAAGAAATATTACTATAATTGAGAACTACAGCTTTTAA
GATTGTACTTTTTATCTTAAAAGGGTGGTAGTTTTCCCTAAAATACTTATTATGTAAGGGTCATTAGACA
AATGTCTTGAAGTAGACATGGAATTTATGAATGGTTCTTTATCATTTCTTCCCCTTTTTGGCATCC
TGGCTTGCTCCAGTTTTAGGTCCTTTAGTTTGTCTTCTGTAAGCAACGGGAACACCTGCTGAGGGGGCT
CTTCCCTCATGTATACTTCAAGTAAGATCAAGAATCTTTGTGAAATTATAGAAATTTACTATGTAAA
TGCTTGATGGAATTTTTCTGCTAGTGTAGCTTCTGAAAGGTGCTTTCTCCATTTATTTAAACTACC
CATGCAATTTAAAGGTACAATGCA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites: Sgfl-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.



[View online >](#)

RefSeq: [NM_001079539.2](#)

Summary: This gene encodes a transcription factor that regulates MHC class II genes by binding to a promoter element referred to as an X box. This gene product is a bZIP protein, which was also identified as a cellular transcription factor that binds to an enhancer in the promoter of the T cell leukemia virus type 1 promoter. It may increase expression of viral proteins by acting as the DNA binding partner of a viral transactivator. It has been found that upon accumulation of unfolded proteins in the endoplasmic reticulum (ER), the mRNA of this gene is processed to an active form by an unconventional splicing mechanism that is mediated by the endonuclease inositol-requiring enzyme 1 (IRE1). The resulting loss of 26 nt from the spliced mRNA causes a frame-shift and an isoform XBP1(S), which is the functionally active transcription factor. The isoform encoded by the unspliced mRNA, XBP1(U), is constitutively expressed, and thought to function as a negative feedback regulator of XBP1(S), which shuts off transcription of target genes during the recovery phase of ER stress. A pseudogene of XBP1 has been identified and localized to chromosome 5. [provided by RefSeq, Jul 2008]

Locus ID: 7494

MW: 24.9