

Product datasheet for **RR208206**

Xbp1 (NM_001004210) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Xbp1 (NM_001004210) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Xbp1
Synonyms: HTF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR208206 representing NM_001004210
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGGTGGTGGCAGCGGCCGAGCGCGCCTCGGCGGCCCAAGTGCTACTCCTATCTGGTCAGC
 CCGCCTCCGGCGCCGAGCGCTGCCGCTCATGGTCCGGGCCGCGAGCCGAGGTCGGAGGCGAGCGG
 GACACCGCAGGCTCGAAGCGGCAGCGCCTCACGCACCTGAGCCCGAGGAGAAAGCGCTGCGGAGGAAA
 CTGAAAAACAGAGTAGCAGCACAGACTGCGCGAGATAGAAAGAAAGCCCGGATGAGCGAGCTGGAGCAGC
 AAGTGGTGGATTTGGAAGAAGAGAACCAGAACTCCAGCTAGAAAATCAGCTTTTACGAGAGAAAACCTCA
 TGGGCTTGTGATTGAGAACCAGGAGTTAAGGACACGCTTGGGGATGAATGCCCTGGTTACTGAAGAGGTC
 TCAGAGGCAGAGTCCAAGGGGAATGGAGTAAGGCTGGTGGCCGGGTCTGCTGAGTCCGCAGCACTCAGAC
 TACGTGCGCCTCTGCAGCAGGTGCAGGCCAGTTGTACCTCCCCAGAACATCTTCCCATGGATTCTGAC
 GCTGTTGCCTCTTCAGATTCTGAGTCTGATATCCTTTTGGGCAATTCTGGACAAGTTGGACCCTGTATGT
 TTTTCAAATGTCCTTCCCAGAGTCTGCTAATCTGGAGGAACTCCCAGAGGCTACCCAGAAGGACCTAG
 TTCCTTACCAGCCTCCCTTCTCTGTGAGTGGGACCTCATCAGCCAAGCTGGAAGCCATTAATGAATC
 ATTCGTTTTGACCATGTATACCAAGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR208206 representing NM_001004210
Red=Cloning site Green=Tags(s)

MVVVAAAPSAASAAPKVL LLSGQPASGGRALPLMVPGPRAAGSEASGTPQARKRQRLTHLSPEEKALRRK
 LKNRVA AQ TARDRKKARMSLELQQVVDLEENQKLQLENQLLREKTHGLVIENQELRTRLMGNALVTEEV
 SEAESKNGVRLVAGSAESAALRLRAPLQQVQAQLSPPQNI FFWIL TLLPLQILSLISFWAFWTSWTLSC
 FSNVLPQSLLIWRNSQRSTQKDLVPYQPPFLCQWGP HQPSWKPLMNSFVL TMYTPSL

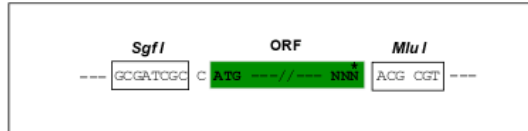
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2282_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001004210

ORF Size: 801 bp

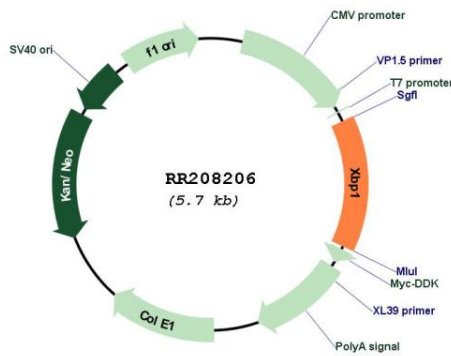
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

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_001004210.2](#), [NP_001004210.1](#)
- RefSeq Size:** 1870 bp
- RefSeq ORF:** 804 bp
- Locus ID:** 289754
- UniProt ID:** [Q9R1S4](#)
- Cytogenetics:** 14q21
- MW:** 29.7 kDa
- Gene Summary:** transcription factor; regulates MHC class II genes by binding to an X-box promoter element; agents that cause the unfolded protein response upregulate transcription [RGD, Feb 2006]

Product images:



Circular map for RR208206