

Product datasheet for RN216503

Xbp1 (NM_001271731) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xbp1 (NM_001271731) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Xbp1
Synonyms:	HTF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN216503 representing NM_001271731 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGGTGGTGGCAGCGGGCCGAGCGGGCCTCGGCGGCCCAAGTGCTACTCTATCTGGTCAGC
CCGCTCCGGCGCCGAGCGCTGCCGCTCATGGTTCGGGCGCCGAGCCGAGGGTCGGAGGCGAGCGG
GACACCGCAGGCTCGCAAGCGGCAGCGCCTCACGCACCTGAGCCCGAGGAGAAAAGCGCTGCGGAGGAAA
CTGAAAAACAGAGTAGCAGCACAGACTGCGCGAGATAGAAAGAAAAGCCCGGATGAGCGAGCTGGAGCAGC
AAGTGGTGGATTTGGAAGAAGAGAACCAGAAAATCCAGCTAGAAAATCAGCTTTTACGAGAGAAAATCA
TGGGCTTGTGATTGAGAACCAGGAGTTAAGGACACGCTTGGGGATGAATGCCCTGGTTACTGAAGAGGTC
TCAGAGGCAGAGTCCAAGGGGAATGGAGTAAGGCTGGTGGCCGGGTCTGCTGAGTCCGCAGCAGGTGCAG
GCCAGTTGTACCTCCCAGAACATCTCCCATGGATTCTGACGCTGTTGCCTTTCAGATTCTGAGTC
TGATATCCTTTTGGGCATTCTGGACAAGTTGGACCCTGTCATGTTTTTCAAATGTCCTTCCCAGAGTCT
GCTAATCTGGAGAACTCCCAGAGGCTACCCAGAAGGACCTAGTTCCTTACCAGCCTCCCTTCTCTGT
CAGTGGGACCTCATCAGCCAAGCTGGAAGCCATTAATGAACCTATTTCGTTTTGACCATTATACACCAA
GCCTCTAGTCTTAGAGATCCCCTCTGAGACAGAGAGCCAACTAATGTGGTAGTGAATAATTGAGGAAGCA
CCTCTAAGCTCTTCAGAAGAGGATCACCTGAATTCATTGTCTCAGTGAAGAAAGAACCTTTGGATGATG
ACTTCATCCCGAGCTGGGCATCTCAAACCTGCTTTCATCCAGCCATTGTCTGAGACCACCTTCTGCCT
GCTGGATGCTCACAGTACTGTGGATATGAGGGCTCCCCTTCTCCCTCAGCGACATGTCTTCTCCACTT
GGTACAGACCACTCTGGGAGGACACTTTTGCCAAAGAACTTTTCCCCAGCTGATTAGTGTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001271731



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Insert Size:	1116 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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>NM_001271731.1, NP_001258660.1</u>
RefSeq Size:	1844 bp
RefSeq ORF:	1116 bp
Locus ID:	289754
UniProt ID:	<u>Q9R1S4</u>
Cytogenetics:	14q21
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] Transcript Variant: This variant (2) lacks a 26 nt segment in the CDS compared to variant 1, that causes a frameshift. The resulting isoform, XBP1(S), has the same N-terminus, but a longer and distinct C-terminus compared to isoform XBP1(U). Isoform XBP1(S) functions as a transcription factor.