

Product datasheet for **RR216503**

Xbp1 (NM_001271731) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xbp1 (NM_001271731) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xbp1
Synonyms:	HTF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR216503 representing NM_001271731 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTGGTGGTGGCAGCGGGCCGAGCGGGCCTCGGCGGCCCCAAAGTGCTACTCCTATCTGGTCAGC
CCGCTCCGGCGCCGAGCGCTGCCGCTCATGGTTCGGGCGCCGAGCCGAGGGTCGGAGGCGAGCGG
GACACCGCAGGCTCGCAAGCGGCAGCGCCTCACGCACCTGAGCCCGAGGAGAAAAGCGCTCGGAGGAAA
CTGAAAAACAGAGTAGCAGCACAGACTGCGCGAGATAGAAAGAAAAGCCCGGATGAGCGAGCTGGAGCAGC
AAGTGGTGGATTTGGAAGAAGAGAACCAGAAAATCCAGCTAGAAAATCAGCTTTTACGAGAGAAAATCA
TGGGCTTGTGATTGAGAACCAGGAGTTAAGGACACGCTTGGGGATGAATGCCCTGGTTACTGAAGAGGTC
TCAGAGGCAGAGTCCAAGGGGAATGGAGTAAGGCTGGTGGCCGGGTCTGCTGAGTCCGCAGCAGGTGCAG
GCCAGTTGTACCTCCCAGAACATCTCCCATGGATTCTGACGCTGTTGCCTTTCAGATTCTGAGTC
TGATATCCTTTTGGGCATTCTGGACAAGTTGGACCCTGTCATGTTTTTCAAATGTCCTTCCCAGAGTCT
GCTAATCTGGAGAACTCCCAGAGGTCTACCCAGAAGGACCTAGTTCCTTACCAGCCTCCCTTCTCTGT
CAGTGGGACCTCATCAGCCAAGCTGGAAGCCATTAATGAACTCATTTCGTTTTGACCATTATACACCAA
GCCTCTAGTCTTAGAGATCCCCTCTGAGACAGAGAGCCAACTAATGTGGTAGTGAATAATTGAGGAAGCA
CCTCTAAGCTCTTCAGAAGAGGATCACCTGAATTCATTGTCTCAGTGAAGAAAGAACCTTTGGATGATG
ACTTCATCCCGAGCTGGGCATCTCAAACCTGCTTTCATCCAGCCATTGTCTGAGACCACCTTCTGCCT
GCTGGATGCTCACAGTACTGTGGATATGAGGGCTCCCCTTCTCCCTTCAGCGACATGTCTTCTCCACTT
GGTACAGACCACTCTGGGAGGACACTTTTGCCAAAGAACTTTTCCCCAGCTGATTAGTGTC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216503 representing NM_001271731
Red=Cloning site Green=Tags(s)

MVVVAAAPSAASAAPKVL LLSGQPASGGRALPLMVPGPRAAGSEASGTPQARKRQRLTHLSPEEKALRRK
 LKNRVAAQTARDRKKARMSELEQQVVDLEENQKLQLENQLLREKTHGLVIENQELRTRLGMNALVTEEV
 SEAESKNGVRLVAGSAESAAGAPVVT SPEHLPMDSDAVASSDSESDILLGILDKLDPVMMFFKCPSPES
 ANLEELPEVYPEGPSSLPASLSLVGTSSAKLEAINELIRFDHVYTKPLVLEIPSETESQTNVVVKIEEA
 PLSSEEDHPEFIVSVKKEPLDDDFIPELGISNLLSSSHCLRPPSCLLDAHSDCGYEGSPSPFSDMSSPL
 GTDHSWEDTFANELFPQLISV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

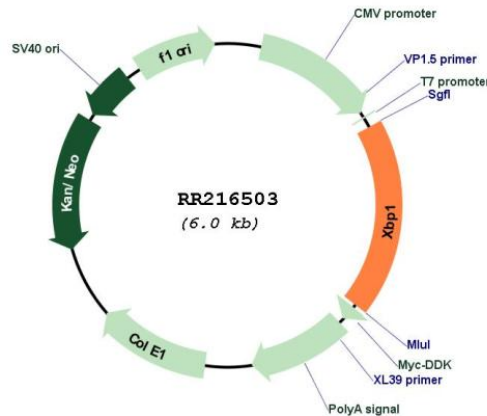
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271731

ORF Size:	1113 bp
OTI Disclaimer:	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:	<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_001271731.1 , NP_001258660.1
RefSeq Size:	1844 bp
RefSeq ORF:	1116 bp
Locus ID:	289754
UniProt ID:	Q9R1S4
Cytogenetics:	14q21
MW:	39.8 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]