Resource Summary Report

Generated by dkNET on Jul 30, 2026

XBP-1 1: pFLAG.XBP1u.CMV2

RRID:Addgene_21832
Type: Plasmid

Proper Citation

RRID:Addgene_21832

Plasmid Information

URL: http://www.addgene.org/21832

Proper Citation: RRID:Addgene_21832

Insert Name: XBP-1 unprocessed

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: PMID:11780124

Vector Backbone Description: Backbone Marker:Sigma; Backbone Size:4700; Vector Backbone:pFLAG-CMV2; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Addgene sequencing results show two mismatches with author's sequence causing two amino acid mutations - G27V and A76V. FLAG-epitope tagged unspliced XBP-1 in the mammalian expression plasmid pFLAG-CMV-2. Flag-tagged version of XBP-1 was constructed by inserting the Flag epitope tag sequence immediately 3' of the ATG start codon. Note: Cheah Kathryn Song Eng reported on November 4, 2004 that the sequence of this plasmid deviates from the predicted by G1028T. This impacts on the CDS changing Gly27Val. We do not know if this is a mutation that crept into our construction, a mutation that was present in the cDNA we purchased or if it is a point in which the mouse genome has some variability. Nor do we know the functional significance of this, but we note that the corresponding residue in the human is Ala. Furthermore, this variation/mutation is in a region of relatively poor sequence conservation across species, suggesting that it might not be all that important.

Plasmid Name: XBP-1 1: pFLAG.XBP1u.CMV2

Record Creation Time: 20220422T222057+0000

Record Last Update: 20260725T074428+0000

Ratings and Alerts

No rating or validation information has been found for XBP-1 1: pFLAG.XBP1u.CMV2.

No alerts have been found for XBP-1 1: pFLAG.XBP1u.CMV2.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Fink SL, et al. (2017) IRE1?? promotes viral infection by conferring resistance to apoptosis. Science signaling, 10(482).

El Karoui K, et al. (2016) Endoplasmic reticulum stress drives proteinuria-induced kidney lesions via Lipocalin 2. Nature communications, 7, 10330.

Valentine CD, et al. (2013) X-box binding protein 1 (XBP1s) is a critical determinant of Pseudomonas aeruginosa homoserine lactone-mediated apoptosis. PLoS pathogens, 9(8), e1003576.

Hong SY, et al. (2013) Multiple myeloma Leu167Ile (c.499C>A) mutation prevents XBP1 mRNA splicing. British journal of haematology, 161(6), 898.

Zhang Y, et al. (2012) Transcriptional regulation of the Ufm1 conjugation system in response to disturbance of the endoplasmic reticulum homeostasis and inhibition of vesicle trafficking. PloS one, 7(11), e48587.