

Resource Summary Report

Generated by T1D on Sep 18, 2026

pEN_TTmiRC2_3xflag_NRF2(RR)

RRID:Addgene_136522

Type: Plasmid

Proper Citation

RRID:Addgene_136522

Plasmid Information

URL: <http://www.addgene.org/136522>

Proper Citation: RRID:Addgene_136522

Insert Name: NRF2(1584A>C,1586A>T,1589A>G)

Organism: Homo sapiens

Bacterial Resistance: Gentamicin

Defining Citation: [PMID:32291314](https://pubmed.ncbi.nlm.nih.gov/32291314/)

Vector Backbone Description: Backbone Marker:Addgene #83274; Backbone Size:4422; Vector Backbone:pEN_TT miRc2 3xFLAG; Vector Types:Gateway Cloning; Bacterial Resistance:Gentamicin

Plasmid Name: pEN_TTmiRC2_3xflag_NRF2(RR)

Relevant Mutation: This plasmid is developed by mutating 3 base pairs within the sequence targeted by shNRF2 version 1 (c.1584A>C,c.1586A>T,c.1589A>G) of NRF2 sequence in the pEN_TTmiRc2_3xflag_NRF2 plasmid using QuickChange II XL site-directed mutagenesis kit to create an RNAi-resistant version of NRF2. These base pair changes do not change the amino acid sequence, but switch the codons to rare codons in the human genome. Primer used:
ctggaaaatatagtagaactagagcaagatttcggttcggttgaaagatgaaaaagaaaaattgctcaaa

Record Creation Time: 20220422T221752+0000

Record Last Update: 20260912T091915+0000

Ratings and Alerts

No rating or validation information has been found for pEN_TTmiRC2_3xflag_NRF2(RR).

No alerts have been found for pEN_TTmiRC2_3xflag_NRF2(RR).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#) .

Wang J, et al. (2023) The activation of spliced X-box binding protein 1 by isorhynchophylline therapy improves diabetic encephalopathy. Cell biology and toxicology, 39(6), 2587.