

# Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 10, 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](#)

**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:** 20260808T080836+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).

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## Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We found 1 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

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.