

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

pcDNA3 HA eIF4GI (1-1599)

RRID:Addgene_45640

Type: Plasmid

Proper Citation

RRID:Addgene_45640

Plasmid Information

URL: <http://www.addgene.org/45640>

Proper Citation: RRID:Addgene_45640

Insert Name: eIF4GI transcript variant 2

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19114555](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5400; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: For diagnostic digest, an additional PvuI digestion is necessary to distinguish the insert from the vector because of their similar sizes. The EIF4G1 translation contains M432V compared to NP_937884 (NM_198241.2); however the nucleotide change resulting in the amino acid change is more conserved between species, and it is located between functional domains of eIF4G1 (PABP-binding site and eIF4E-binding site), and does not affect its function as a translational factor

Plasmid Name: pcDNA3 HA eIF4GI (1-1599)

Record Creation Time: 20220422T222236+0000

Record Last Update: 20260815T081525+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3 HA eIF4GI (1-1599).

No alerts have been found for pcDNA3 HA eIF4GI (1-1599).

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 [RRID](#) .

Dabrowska A, et al. (2021) Mass Spectrometry versus Conventional Techniques of Protein Detection: Zika Virus NS3 Protease Activity towards Cellular Proteins. *Molecules* (Basel, Switzerland), 26(12).

Dong Z, et al. (2020) CUL3 Deficiency Causes Social Deficits and Anxiety-like Behaviors by Impairing Excitation-Inhibition Balance through the Promotion of Cap-Dependent Translation. *Neuron*, 105(3), 475.

Jo S, et al. (2019) eIF4G1 and carboxypeptidase E axis dysregulation in O-GlcNAc transferase-deficient pancreatic β -cells contributes to hyperproinsulinemia in mice. *The Journal of biological chemistry*, 294(35), 13040.

Rigogliuso G, et al. (2019) A human endogenous retrovirus encoded protease potentially cleaves numerous cellular proteins. *Mobile DNA*, 10, 36.

Grzmil M, et al. (2016) Inhibition of MNK pathways enhances cancer cell response to chemotherapy with temozolomide and targeted radionuclide therapy. *Cellular signalling*, 28(9), 1412.