

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

pSecUAG-Evol2

RRID:Addgene_163148

Type: Plasmid

Proper Citation

RRID:Addgene_163148

Plasmid Information

URL: <http://www.addgene.org/163148>

Proper Citation: RRID:Addgene_163148

Insert Name: allo-tRNA UTu2D

Organism: Synthetic

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:29631320](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:3500; Vector Backbone:pBAD-myc-HisA; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Comments: For additional information and the protocol for using this plasmid, please see: <https://doi.org/10.1002/cpz1.54>

Plasmid Name: pSecUAG-Evol2

Record Creation Time: 20220422T221922+0000

Record Last Update: 20260815T080909+0000

Ratings and Alerts

No rating or validation information has been found for pSecUAG-Evol2.

No alerts have been found for pSecUAG-Evol2.

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](#) .

Jia X, et al. (2026) NAD⁺ hydrolysis catalyzed by SeO is required for mitochondrial homeostasis. *Cell*, 189(9), 2633.

Cain A, et al. (2024) Overcoming Challenges with Biochemical Studies of Selenocysteine and Selenoproteins. *International journal of molecular sciences*, 25(18).

Chung CZ, et al. (2022) Using selenocysteine-specific reporters to screen for efficient tRNA^{Sec} variants. *Methods in enzymology*, 662, 63.

Evans RM, et al. (2021) Selective cysteine-to-selenocysteine changes in a [NiFe]-hydrogenase confirm a special position for catalysis and oxygen tolerance. *Proceedings of the National Academy of Sciences of the United States of America*, 118(13).

Chung CZ, et al. (2021) Introducing Selenocysteine into Recombinant Proteins in *Escherichia coli*. *Current protocols*, 1(2), e54.