

Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

nuc-yHS1-M7A,H102A

RRID:Addgene_159168

Type: Plasmid

Proper Citation

RRID:Addgene_159168

Plasmid Information

URL: <http://www.addgene.org/159168>

Proper Citation: RRID:Addgene_159168

Insert Name: nuc-yHS1-M7A,H102A

Organism: *Saccharomyces cerevisiae*

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:27247412](#)

Vector Backbone Description: Backbone Marker:M. Funk; Backbone Size:6900; Vector Backbone:p415GPD; Vector Types:Yeast Expression; Bacterial Resistance:Ampicillin

Comments: The first-generation heme sensor, HS1, consists of a heme-binding domain, the His/Met coordinating 4-alpha-helical bundle hemoprotein cytochrome b562 (Cyt b562) (13), fused to a pair of fluorescent proteins, EGFP and Katushka 2 (mKATE2)

Plasmid Name: nuc-yHS1-M7A,H102A

Relevant Mutation: Mutated both Met 7 and His 102 of the cyt b562 module of nuc-yHS1 to Ala (M7A and H102A, respectively), creates weak affinity heme sensor.

Record Creation Time: 20220422T221902+0000

Record Last Update: 20260815T080825+0000

Ratings and Alerts

No rating or validation information has been found for nuc-yHS1-M7A,H102A.

No alerts have been found for nuc-yHS1-M7A,H102A.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.