

Resource Summary Report

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

yHS1-M7A,H102A

RRID:Addgene_159152

Type: Plasmid

Proper Citation

RRID:Addgene_159152

Plasmid Information

URL: <http://www.addgene.org/159152>

Proper Citation: RRID:Addgene_159152

Insert Name: 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: yHS1-M7A,H102A

Relevant Mutation: Mutated both Met 7 and His 102 of the cyt b562 module of yHS1 to Ala (M7A and H102A, respectively), creates weak affinity heme sensor. Mutated His 63 to Asn (H63N) to test possible role in heme binding, found no effect.

Record Creation Time: 20220422T221902+0000

Record Last Update: 20260815T080825+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.