

Resource Summary Report

Generated by [NIF](#) on Sep 1, 2026

pcDNA5 FRT/TO SF-HERC2 C4762S (ShB-R)

RRID:Addgene_55614

Type: Plasmid

Proper Citation

RRID:Addgene_55614

Plasmid Information

URL: <http://www.addgene.org/55614>

Proper Citation: RRID:Addgene_55614

Insert Name: 3xFLAG tagged HERC2 (C4762S)

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24855649](#)

Vector Backbone Description: Backbone Marker:Life Technologies; Backbone Size:5137; Vector Backbone:pcDNA5 FRT/TO; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: There is a unique XhoI between the N-terminal 3xFLAG/STREP tag and the beginning of the HERC2 ORF. When cut with XhoI, PmeI, the untagged HERC2 ORF can be excised. There is a TEV-protease site inserted between the N-terminal 3xFLAG/STREP tag and the HERC2 ORF. Silent mutations have been incorporated into the ORF of HERC2 to render it refractory to the shRNA described in the associated publication.

Plasmid Name: pcDNA5 FRT/TO SF-HERC2 C4762S (ShB-R)

Relevant Mutation: C4762 mutated to serine to render HERC2 catalytically inactive. Also, Silent mutations have been incorporated into the ORF of HERC2 to render it refractory to the shRNA described in the associated publication.

Record Creation Time: 20220422T222325+0000

Record Last Update: 20260829T080721+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA5 FRT/TO SF-HERC2 C4762S (ShB-R).

No alerts have been found for pcDNA5 FRT/TO SF-HERC2 C4762S (ShB-R).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Sala-Gaston J, et al. (2026) Proteasome dysfunction underlies HERC2-linked neurodevelopmental disorder with Angelman-like clinical features. Cell death discovery, 12(1).

Yagita Y, et al. (2023) Mechanism of orphan subunit recognition during assembly quality control. Cell, 186(16), 3443.

Sala-Gaston J, et al. (2022) HERC2 deficiency activates C-RAF/MKK3/p38 signalling pathway altering the cellular response to oxidative stress. Cellular and molecular life sciences : CMLS, 79(11), 548.