Resource Summary Report

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pET His6 StrepII TEV co-transformation cloning vector (13K-HR)

RRID:Addgene_48318
Type: Plasmid

Proper Citation

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Plasmid Information

URL: http://www.addgene.org/48318

Proper Citation: RRID:Addgene_48318

Bacterial Resistance: Kanamycin

Vector Backbone Description: Backbone Size:3612; Vector Backbone:pET; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Comments: This plasmid is an empty vector to be used with a LIC cloning protocol.It has a TEV cleavable His6-StrepII fusion tag on the N-terminus and a Kan resistance. To clone into this vector, add LIC fusion tags to the 5' end of your PCR primers. Forward - 5'TACTTCCAATCCAATGCA3' Reverse - 5'TTATCCACTTCCAATGTTATTA3' Linearize the plasmid with SspI and gel purify. When digesting the DNA with T4 polymerase for LIC, use dCTP for insert and dGTP for vector. The 13-series vectors were designed to enable rapid cloning for a co-expression system. Vectors are based on Novagen's Duet system. Each gene is expressed on its own vector, which has been optimized so that each gene expresses at approximately equal levels. The 13-series vectors are all compatible with 2-series transfer vectors, so if cotransformation fails, there is a readily available backup in polycistronic expression. 13S CDF origin SpecR13K ColA origin KanR2-series transfer ColE1 origin AmpR13S vectors must be cotransformed with a 2-series vector for optimal expression (that is, the presence of an empty 2A-T vector enhances expression of a gene in 13S). For triple expressions, the proteins all seem to express at approximately equal levels. Genes in the CDF vector consistently express at very slightly lower levels, so if you're trying to pull down stoichiometric complexes, it's probably best to put His6-fusion protein in this vector. More information on this vector can be found through http://qb3.berkeley.edu/qb3/macrolab/

Plasmid Name: pET His6 StrepII TEV co-transformation cloning vector (13K-HR)

Record Creation Time: 20220422T222248+0000

Record Last Update: 20260808T081738+0000

Ratings and Alerts

No rating or validation information has been found for pET His6 StrepII TEV co-transformation cloning vector (13K-HR).

No alerts have been found for pET His6 StrepII TEV co-transformation cloning vector (13K-HR).

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Aurora AB, et al. (2022) Loss of glucose 6-phosphate dehydrogenase function increases oxidative stress and glutaminolysis in metastasizing melanoma cells. Proceedings of the National Academy of Sciences of the United States of America, 119(6).

Jiang P, et al. (2021) Transcriptomic Analysis of Short/Branched-Chain Acyl-Coenzyme a Dehydrogenase Knocked Out bMECs Revealed Its Regulatory Effect on Lipid Metabolism. Frontiers in veterinary science, 8, 744287.

Das S, et al. (2021) CRISPR mediated targeting of DUX4 distal regulatory element represses DUX4 target genes dysregulated in Facioscapulohumeral muscular dystrophy. Scientific reports, 11(1), 12598.

Kim S, et al. (2020) Selective loading and processing of prespacers for precise CRISPR adaptation. Nature, 579(7797), 141.

Tasdogan A, et al. (2020) Metabolic heterogeneity confers differences in melanoma metastatic potential. Nature, 577(7788), 115.

Brummer G, et al. (2018) Chemokine Signaling Facilitates Early-Stage Breast Cancer Survival and Invasion through Fibroblast-Dependent Mechanisms. Molecular cancer research : MCR, 16(2), 296.