

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

pDONR223-TBK1

RRID:Addgene_23851

Type: Plasmid

Proper Citation

RRID:Addgene_23851

Plasmid Information

URL: <http://www.addgene.org/23851>

Proper Citation: RRID:Addgene_23851

Insert Name: TBK1

Organism: Homo sapiens

Bacterial Resistance: Spectinomycin

Defining Citation: [PMID:21107320](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5005; Vector Backbone:pDONR223; Vector Types:Gateway Cloning; Bacterial Resistance:Spectinomycin

Comments: The ORF has no Stop codon. This design enables easy recombination into a destination vector to add an epitope tag of choice and Stop codon to the ORF. Do NOT use this plasmid directly for transfections. A set of 4 custom lentiviral vectors is available (pLX301 (<http://www.addgene.org/25895/>) , pLX302 (<http://www.addgene.org/25896/>) , pLX303 (<http://www.addgene.org/25897/>) , pLX304 (<http://www.addgene.org/25890/>)) to be used to express these ORFs in mammalian cells. These plasmids are not included in the kit and must be ordered separately.

Plasmid Name: pDONR223-TBK1

Record Creation Time: 20220422T222106+0000

Record Last Update: 20260815T081225+0000

Ratings and Alerts

No rating or validation information has been found for pDONR223-TBK1.

No alerts have been found for pDONR223-TBK1.

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 [RRID](#) .

Hua F, et al. (2024) TRIM28 facilitates type I interferon activation by targeting TBK1. *Frontiers in immunology*, 15, 1279920.

Evans CS, et al. (2020) Degradation of engulfed mitochondria is rate-limiting in Optineurin-mediated mitophagy in neurons. *eLife*, 9.

Moore AS, et al. (2016) Dynamic recruitment and activation of ALS-associated TBK1 with its target optineurin are required for efficient mitophagy. *Proceedings of the National Academy of Sciences of the United States of America*, 113(24), E3349.