

Resource Summary Report

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

pDONR223-MERTK

RRID:Addgene_23900

Type: Plasmid

Proper Citation

RRID:Addgene_23900

Plasmid Information

URL: <http://www.addgene.org/23900>

Proper Citation: RRID:Addgene_23900

Insert Name: MERTK

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-MERTK

Record Creation Time: 20220422T222107+0000

Record Last Update: 20260815T081226+0000

Ratings and Alerts

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

No alerts have been found for pDONR223-MERTK.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Crossman BE, et al. (2025) Tumor-associated MerTK promotes a pro-inflammatory microenvironment and enhances immune checkpoint inhibitor response in triple-negative breast cancer. *Frontiers in oncology*, 15, 1579214.

Iida M, et al. (2024) MerTK Drives Proliferation and Metastatic Potential in Triple-Negative Breast Cancer. *International journal of molecular sciences*, 25(10).

Salokas K, et al. (2022) Physical and functional interactome atlas of human receptor tyrosine kinases. *EMBO reports*, 23(6), e54041.

Kuroda M, et al. (2020) HER2-mediated enhancement of Ebola virus entry. *PLoS pathogens*, 16(10), e1008900.

Kim WJ, et al. (2018) Association between Genetic Variations of MERTK and Chronic Obstructive Pulmonary Disease in Koreans. *Journal of Korean medical science*, 33(7), e56.

Albanese SK, et al. (2018) An Open Library of Human Kinase Domain Constructs for Automated Bacterial Expression. *Biochemistry*, 57(31), 4675.

von M??ssenhausen A, et al. (2016) MERTK as a novel therapeutic target in head and neck cancer. *Oncotarget*, 7(22), 32678.

Toledo RA, et al. (2016) Recurrent Mutations of Chromatin-Remodeling Genes and Kinase Receptors in Pheochromocytomas and Paragangliomas. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 22(9), 2301.