

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

murine TCR OTI-2A.pMIG II

RRID:Addgene_52111

Type: Plasmid

Proper Citation

RRID:Addgene_52111

Plasmid Information

URL: <http://www.addgene.org/52111>

Proper Citation: RRID:Addgene_52111

Insert Name: T cell receptor alpha chain

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:17406263](#)

Vector Backbone Description: Backbone Marker:Dario Vignali, Addgene plasmid 52107; Vector Backbone:pMIG II; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Comments: The cDNAs encoding the TCR α (lacking the stop codon) and TCR β chains were linked via a 2A peptide into a single open reading frame by recombinant PCR and cloned into a mouse stem cell virus (MSCV)-based retroviral vector containing an IRES-GFP cassette to facilitate the identification of marked cells. The 2A peptide remains attached to the TCR α carboxy terminus and can be used to verify the complete separation of the two chains. Inclusion of a Gly-Ser-Gly (GSG) spacer between TCR α and the 2A peptide ensures complete 'cleavage'. We have not seen any deleterious effects of the 2A peptide on the function of any proteins examined thus far.

Plasmid Name: murine TCR OTI-2A.pMIG II

Record Creation Time: 20220422T222306+0000

Record Last Update: 20260725T074818+0000

Ratings and Alerts

No rating or validation information has been found for murine TCR OTI-2A.pMIG II.

No alerts have been found for murine TCR OTI-2A.pMIG II.

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 [NIF](#) .

Abdullah L, et al. (2025) The endogenous antigen-specific CD8+ T cell repertoire is composed of unbiased and biased clonotypes with differential fate commitments. *Immunity*, 58(3), 601.

Kadyrzhanova G, et al. (2025) Aging impairs CD8 T cell responses in adoptive T-cell therapy against solid tumors. *Frontiers in immunology*, 16, 1484303.

Holling GA, et al. (2024) CD8+ T cell metabolic flexibility elicited by CD28-ARS2 axis-driven alternative splicing of PKM supports antitumor immunity. *Cellular & molecular immunology*, 21(3), 260.

Sun ND, et al. (2024) TBK1 and IKK γ protect target cells from IFN γ -mediated T cell killing via an inflammatory apoptotic mechanism. *bioRxiv : the preprint server for biology*.

Lucero OM, et al. (2023) Patient-Specific Targeting of the T-Cell Receptor Variable Region as a Therapeutic Strategy in Clonal T-Cell Diseases. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 29(20), 4230.

Zhou X, et al. (2023) MHC class II regulation of CD8+ T cell tolerance and implications in autoimmunity and cancer immunotherapy. *Cell reports*, 42(11), 113452.

Miao T, et al. (2017) Egr2 and 3 control adaptive immune responses by temporally uncoupling expansion from T cell differentiation. *The Journal of experimental medicine*, 214(6), 1787.

Ghosh A, et al. (2017) Donor CD19 CAR T cells exert potent graft-versus-lymphoma activity with diminished graft-versus-host activity. *Nature medicine*, 23(2), 242.