

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

murine TCR OTII-2A.pMIG II

RRID:Addgene_52112

Type: Plasmid

Proper Citation

RRID:Addgene_52112

Plasmid Information

URL: <http://www.addgene.org/52112>

Proper Citation: RRID:Addgene_52112

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 TCRa (lacking the stop codon) and TCRb 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 TCRa carboxy terminus and can be used to verify the complete separation of the two chains. Inclusion of a Gly-Ser-Gly (GSG) spacer between TCRa 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 OTII-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 OTII-2A.pMIG II.

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

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Akama-Garren EH, et al. (2024) T cell help shapes B cell tolerance. Science immunology, 9(92), eadj7029.

Symonds AL, et al. (2020) Egr2 and 3 control inflammation, but maintain homeostasis, of PD-1high memory phenotype CD4 T cells. Life science alliance, 3(9).