

Resource Summary Report

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

pR I-Ab beta Derp1-117

RRID:Addgene_113639

Type: Plasmid

Proper Citation

RRID:Addgene_113639

Plasmid Information

URL: <http://www.addgene.org/113639>

Proper Citation: RRID:Addgene_113639

Insert Name: I-Ab beta Derp1-117

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29956152](#)

Vector Backbone Description: Backbone Size:3818; Vector Backbone:pRMHa-3; Vector Types:Insect Expression; Bacterial Resistance:Ampicillin

Comments: This construct, when co-expressed with the corresponding alpha chain construct in Drosophila S2 cells and induced with copper sulfate, results in secreted expression of soluble peptide:MHCII complexes. The antigenic peptide sequence (residues 117-127 of Der p 1 allergen) is encoded as a fusion to the N-terminus of I-Ab beta, connected via a Gly-Ser linker. This fusion is encoded just downstream of the signal peptide, which should be cleaved during post-translational processing. Alternative antigenic peptides can be cloned in place of Der p 1 117-127 by exploiting the XmaI and SpeI restriction sites flanking this sequence.

Plasmid Name: pR I-Ab beta Derp1-117

Relevant Mutation: transmembrane and cytoplasmic domains truncated

Record Creation Time: 20220422T221555+0000

Record Last Update: 20260725T073530+0000

Ratings and Alerts

No rating or validation information has been found for pR I-Ab beta Derp1-117.

No alerts have been found for pR I-Ab beta Derp1-117.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.