

Resource Summary Report

Generated by [RRID](#) on Aug 22, 2026

pTCF176 HLA-A*02:01 (CD8 mut)

RRID:Addgene_180459

Type: Plasmid

Proper Citation

RRID:Addgene_180459

Plasmid Information

URL: <http://www.addgene.org/180459>

Proper Citation: RRID:Addgene_180459

Insert Name: HLA-A*02:01 (CD8 mut)

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Vector Backbone Description: Backbone Marker:Novagen; Vector Backbone:pET24a+; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Comments: Mutation prevents binding of CD8 (Purbhoo et al. (2001) J. Biol. Chem. doi.org/10.1074/jbc.M102498200). See <https://www.ebi.ac.uk/ipd/imgt/hla/alleles/allele/?accession=HLA00005> for allele sequence data. For detailed protocols of expression, purification and use to visualize antigen-specific T cells, please refer to Altman and Davis (2016) Curr. Protoc. Immunol. doi.org/10.1002/cpim.14. We recommend the E. coli BL21(DE3) strain for expression.

Plasmid Name: pTCF176 HLA-A*02:01 (CD8 mut)

Relevant Mutation: D227K, T228A, replacement of transmembrane domain with enzymatic biotinylation site

Record Creation Time: 20220422T222034+0000

Record Last Update: 20260815T081126+0000

Ratings and Alerts

No rating or validation information has been found for pTCF176 HLA-A*02:01 (CD8 mut).

No alerts have been found for pTCF176 HLA-A*02:01 (CD8 mut).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.