

Resource Summary Report

Generated by [NIF](#) on Sep 18, 2026

pCDH-V3-rCD20-BSD

RRID:Addgene_209754

Type: Plasmid

Proper Citation

RRID:Addgene_209754

Plasmid Information

URL: <http://www.addgene.org/209754>

Proper Citation: RRID:Addgene_209754

Insert Name: MS4A1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:37683180](#)

Vector Backbone Description: Backbone Size:7456; Vector Backbone:pCDH-IRES-BSD; Vector Types:Lentiviral; Bacterial Resistance:Ampicillin

Comments: Lentiviral transfer plasmid to express the 5'-UTR and CDS of the human CD20 gene, MS4A1. Specifically, the variant 3 mRNA isoform of CD20. The "CCTGGGGGGTCTTCTGATGATCC" sequence within the CDS of MS4A1 was altered with synonymous substitutions to "GTTGGGCGGACTACTTATGATTC" to avoid recognition by the gRNA from LentiCRISPRv2-sgCD20. This allows for the rescue of CD20 expression after LentiCRISPRv2-sgCD20 vector-mediated knockout.

Plasmid Name: pCDH-V3-rCD20-BSD

Relevant Mutation: The CCTGGGGGGTCTTCTGATGATCC sequence within the CDS of CD20 was mutated to GTTGGGCGGACTACTTATGATTC to confer resistance to the CD20-targeting gRNA from the LentiCRISPRv2-sgCD20 vector.

Record Creation Time: 20231205T080511+0000

Record Last Update: 20260912T093939+0000

Ratings and Alerts

No rating or validation information has been found for pCDH-V3-rCD20-BSD.

No alerts have been found for pCDH-V3-rCD20-BSD.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.