(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
09 October 2025 (09.10.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/212803 A3

(51) International Patent Classification:
A61K 40/11 (2025.01) *A61K 40/31* (2025.01)

(21) International Application Number:
PCT/US2025/022794

(22) International Filing Date:
02 April 2025 (02.04.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

63/574,150	03 April 2024 (03.04.2024)	US
63/696,081	18 September 2024 (18.09.2024)	US
63/717,157	06 November 2024 (06.11.2024)	US

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UY, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,

(54) Title: LENTIVIRAL DELIVERY OF ANTI-CD22 CHIMERIC ANTIGEN RECEPTORS

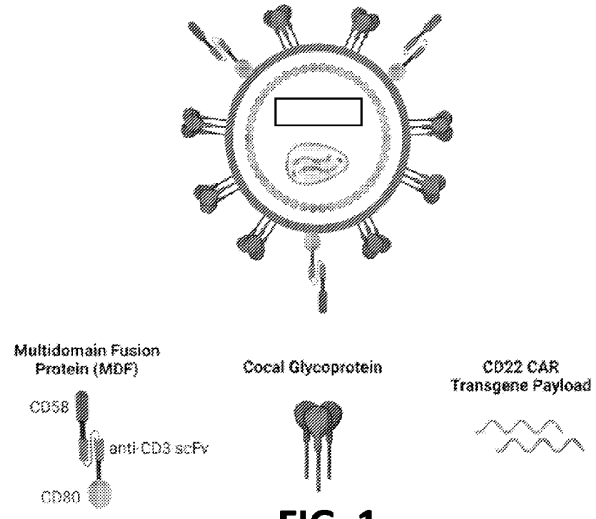


FIG. 1

(57) Abstract: Provided herein are particles comprising polynucleotide constructs for generating cells expressing anti-CD22 chimeric antigen receptor, as well as vectors, such as lentiviral vectors, comprising same, cells comprising same, and methods of using same. Some embodiments include a surface-engineered lentiviral vector. In some embodiments, the lentiviral vector further encodes a synthetic receptor protein.

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WO 2025/212803 A3

SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
— *with sequence listing part of description (Rule 5.2(a))*

(88) Date of publication of the international search report:
18 December 2025 (18.12.2025)