



- (51) **International Patent Classification:**
C12N 15/85 (2006.01)
- (21) **International Application Number:**
PCT/US2024/010926
- (22) **International Filing Date:**
09 January 2024 (09.01.2024)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/479,176 09 January 2023 (09.01.2023) US
63/479,177 09 January 2023 (09.01.2023) US
63/479,178 09 January 2023 (09.01.2023) US
- (71) **Applicant:** **OUTPACE BIO, INC.** [US/US]; 700 Dexter Ave N, Suite 300, Seattle, Washington 98109 (US).
- (72) **Inventors:** **HAESELEER, Francoise J.**; c/o Outpace Bio, Inc., 700 Dexter Ave N, Suite 300, Seattle, Washington 98109 (US). **KIRKPATRICK, Robin L.**; c/o Outpace Bio, Inc., 700 Dexter Ave N, Suite 300, Seattle, Washington 98109 (US). **CROWL, Ty**; c/o Outpace Bio, Inc., 700 Dexter Ave N, Suite 300, Seattle, Washington 98109 (US). **HAMMER, Jared Louis**; c/o Outpace Bio, Inc., 700 Dexter Ave N, Suite 300, Seattle, Washington 98109 (US).

MOFFETT, Howell; c/o Outpace Bio, Inc., 700 Dexter Ave N, Suite 300, Seattle, Washington 98109 (US). **NG, Andrew Howen**; c/o Outpace Bio, Inc., 700 Dexter Ave N, Suite 300, Seattle, Washington 98109 (US). **SAMPLE, Paul Joseph**; c/o Outpace Bio, Inc., 700 Dexter Ave N, Suite 300, Seattle, Washington 98109 (US).

(74) **Agent:** **MAYER, Mika R.** et al.; Cooley LLP, 1299 Pennsylvania Avenue, NW, Suite 700, Washington, District of Columbia 20004-2400 (US).

(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, 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,

(54) **Title:** INDUCIBLE CONSTRUCTS

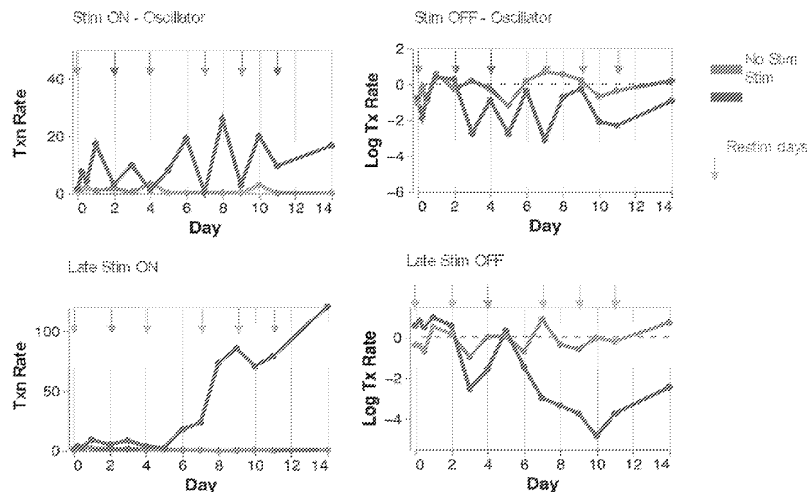


FIG. 4

(57) **Abstract:** The disclosure provides inducible constructs comprising transcription initiators and/or transcription regulators. These constructs may be used to drive expression of genes, in response to particular cell states (such as in the context of antigen stimulation). In some embodiments, the constructs are incorporated as a part of regulatory circuits useful to control expression and regulation of cells expressing engineered receptors.

[Continued on next page]

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

Published:

- *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*
- *with sequence listing part of description (Rule 5.2(a))*