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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 February 2026 (19.02.2026)

WIPO | PCT

(10) International Publication Number
WO 2026/039064 A1

(51) International Patent Classification:
C12N 15/81 (2006.01) *C12N 5/10* (2006.01)
C07K 14/08 (2006.01)

(21) International Application Number:
PCT/US2025/014844

(22) International Filing Date:
06 February 2025 (06.02.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/683,077 14 August 2024 (14.08.2024) US
63/682,989 14 August 2024 (14.08.2024) 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,

WO 2026/039064 A1

(54) Title: METHODS AND SYSTEMS FOR HETEROLOGOUS RNA PAYLOAD PRODUCTION IN VIRUS-LIKE PARTICLES IN THE YEAST GENUS YARROWIA

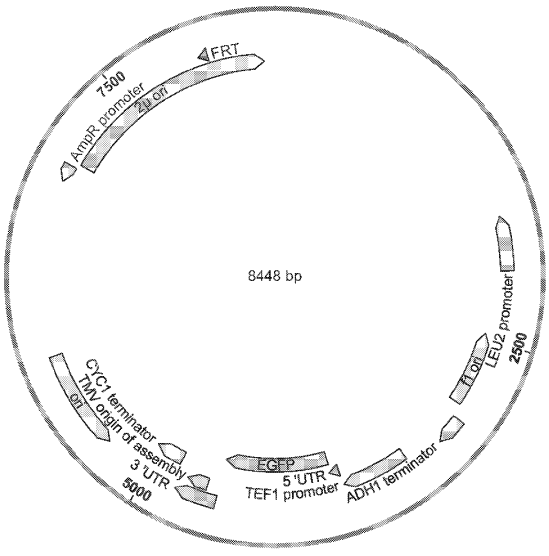


FIG. 1

(57) Abstract: The present disclosure relates to transformed *Yarrowia sp.* cells capable of producing heterologous RNA molecules by encapsulating the RNA in Tobacco Mosaic virus capsid proteins to form viral like particles (VLPs) and to methods of producing heterologous RNA by culturing such *Yarrowia sp.* cells. The production of such heterologous RNA in VLPs produced by these transformed *Yarrowia sp.* cells increases the stability, yield and/or translational efficiency of the RNA extracted from those VLPs compared to other yeasts.

[Continued on next page]

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, 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))*
— *with sequence listing part of description (Rule 5.2(a))*