



(51) International Patent Classification:

C12N 1/16 (2006.01) *C12P 7/64* (2006.01)
C12N 1/28 (2006.01)

(21) International Application Number:

PCT/US2013/076739

(22) International Filing Date:

19 December 2013 (19.12.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/739,661 19 December 2012 (19.12.2012) US

(71) Applicant: VERDEZYNE, INC. [US/US]; 2715 Loker Avenue West, Carlsbad, CA 92010 (US).

(72) Inventors: BEARDSLEE, Tom; 2715 Loker Avenue West, Carlsbad, CA 92010 (US). HUTAGALUNG, Alex; 2715 Loker Avenue West, Carlsbad, CA 92015 (US). PICATAGGIO, Stephen; 2715 Loker Avenue West, Carlsbad, CA 92010 (US).

(74) Agents: GIRINATH, Prashant et al.; Wilson Sonsini Goodrich & Rosati, 650 Page Mill Road, Palo Alto, CA 94304-1050 (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, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, 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, 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))
- 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))

(88) Date of publication of the international search report:

18 September 2014

(54) Title: BIOLOGICAL METHODS FOR PREPARING A FATTY DICARBOXYLIC ACID

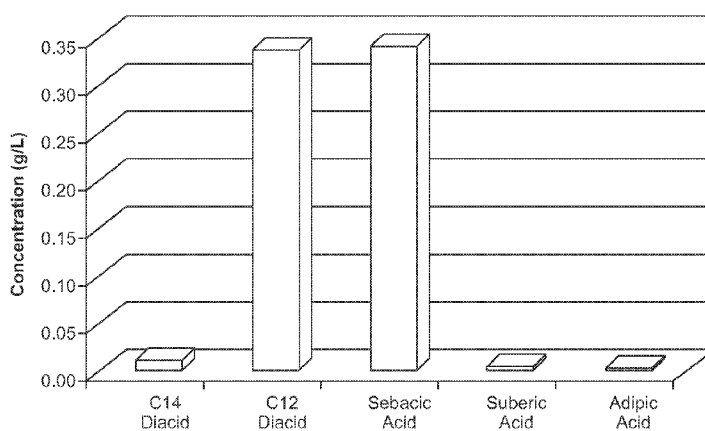


FIG. 17

(57) Abstract: The technology relates in part to biological methods for producing a fatty dicarboxylic acid and engineered microorganisms capable of such production. Provided are engineered microorganisms capable of producing fatty dicarboxylic acids and products expressed by such microorganisms. Also provided are biological methods for producing fatty dicarboxylic acids.