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 61/242,735 15 September 2009 (15.09.2009) US</p> <p>(71) Applicant (for all designated States except US): SAPPHIRE ENERGY, INC. [US/US]; Legal Department, 3115 Merryfield Row, San Diego, California 92121 (US).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): BOTSCH, Kyle [US/US]; Sapphire Energy, INC., 3115 Merryfield Row, San Diego, California 92121 (US). SZYJKA, Shawn [US/US]; Sapphire Energy, INC., 3115 Merryfield Row, San Diego, California 92121 (US). LEVINE, Wendy [US/US]; Sapphire Energy, INC., 3115 Merryfield Row, San Diego, California 92121 (US). CURRAN, Amy [US/</p> | <p>US]; Sapphire Energy, INC., 3115 Merryfield Row, San Diego, California 92121 (US). O'NEILL, Bryan [US/US]; Sapphire Energy, INC., 3115 Merryfield Row, San Diego, California 92121 (US). MENDEZ, Michael [US/US]; Sapphire Energy, INC., 3115 Merryfield Row, San Diego, California 92121 (US).</p> <p>(74) Common Representative: SAPPHIRE ENERGY, INC.; Legal Department, 3115 Merryfield Row, San Diego, California 92121 (US).</p> <p>(81) Designated States (<i>unless otherwise indicated, for every kind of national protection available</i>): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, 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, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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.</p> <p>(84) Designated States (<i>unless otherwise indicated, for every kind of regional protection available</i>): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,</p> |
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- (54) Title:** A SYSTEM FOR TRANSFORMATION OF THE CHLOROPLAST GENOME OF *SCENEDESMUS SP.* AND *DUNALIELLA SP.*

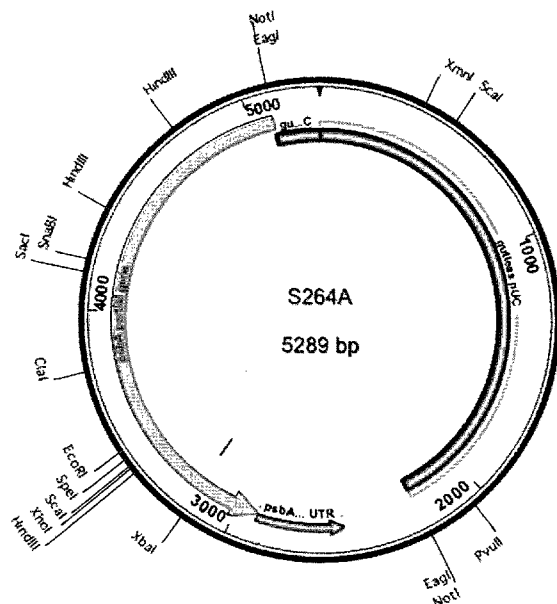


FIG. 1

- (57) Abstract:** The present disclosure relates to methods of transforming various species of algae, for example, algae from the genus *Scenedesmus* and the genus *Dunaliella*, vectors and nucleic acid constructs useful in conducting such transformations, and recombinant algae, for example, *Scenedesmus* and *Dunaliella* produced using the vectors and methods disclosed herein.



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