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(71) **Applicant** *(for all designated States except US)*: **SIGMA-ALDRICH CO. LLC** [US/US]; 3050 Spruce Street, St. Louis, Missouri 63103 (US).

(72) **Inventors; and**

(75) **Inventors/Applicants** *(for US only)*: **LIN, Nan** [CN/US]; 3050 Spruce Street, St. Louis, Missouri 63103 (US). **GEORGE, Henry J.** [US/US]; 3050 Spruce Street, St. Louis, Missouri 63103 (US). **MASCARENHAS, Joaquina** [US/US]; 3050 Spruce Street, St. Louis, Missouri 63103 (US). **COLLINGWOOD, Trevor N.** [NZ/US]; 3050 Spruce Street, St. Louis, Missouri 63103 (US). **KAYSER, Kevin J.** [US/US]; 3050 Spruce Street, St. Louis, Missouri 63103 (US). **ACHTIEN, Katherine** [US/US]; 3050 Spruce Street, St. Louis, Missouri 63103 (US).

(74) **Agents**: **BISSEN, Shirley T.** et al.; Polsinelli Shughart PC, 100 South Fourth Street, Suite 1000, St. Louis, Missouri 63102-1825 (US).

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(54) **Title**: CELLS DEFICIENT IN CMP-N-ACETYLNEURAMINIC ACID HYDROXYLASE AND/OR GLYCOPROTEIN ALPHA-1,3-GALACTOSYLTRANSFERASE

(57) **Abstract**: The present invention provides non-human mammalian cell lines that are deficient in CMP-Neu5Ac hydroxylase (Cmah) and/or glycoprotein alpha-1,3-galactosyltransferase (Ggta1). Also provided are methods for using the cells disclosed herein for producing recombinant proteins with human-like patterns of glycosylation.