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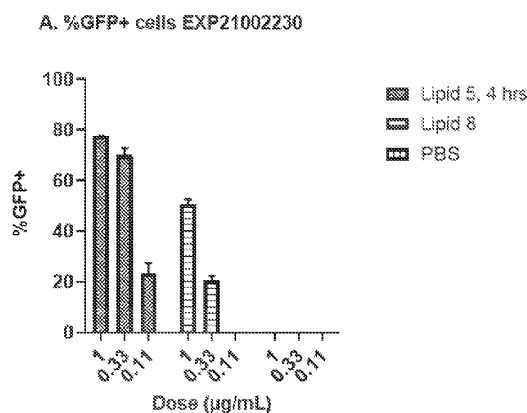
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(54) **Title:** IONIZABLE CATIONIC LIPIDS AND LIPID NANOPARTICLES, AND METHODS OF SYNTHESIS AND USE THEREOF

FIG. 54A



(57) **Abstract:** Provided are ionizable cationic lipids and lipid nanoparticles for the delivery of nucleic acids to cells (e.g., immune cells), and methods of making and using such lipids and targeted lipid nanoparticles.