Abstract

CHIMERIC ANTIGEN RECEPTORS TARGETING EPIDERMAL GROWTH FACTOR RECEPTOR VARIANT III

The invention provides Chimeric Antigen Receptors (CARs) that specifically bind to EGFRvlll (Epidermal Growth Factor Receptor Variant III). The invention further relates to engineered immune cells comprising such CARs, CAR-encoding nucleic acids, and methods of making thereof, engineered immune cells, and nucleic acids. The invention further relates to therapeutic methods for using these CARs and engineered immune cells for the treatment of EGFRvlll-mediated pathologies, including cancers such as glioblastoma.

Figure 1A