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(54) Title: KAURENOIC ACID 13-HYDROXYLASE (KAH) VARIANTS AND USES THEREOF

FIG. 2



(57) Abstract: Provided herein are genetically modified host cells, compositions, and methods for improved production of steviol glycosides. The host cells are genetically modified to contain a heterologous nucleic acid that expresses novel and optimized variants of Ro.KAH. The host cell further contains one or more heterologous nucleotide sequence encoding further enzymes of a pathway capable of producing one or more steviol glycosides in the host cell. The host cells, compositions, and methods described herein provide an efficient route for the heterologous production of steviol glycosides including rebaudioside A, rebaudioside D, and rebaudioside M.