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(54) Title: ENGINEERED BIOCATALYSTS USEFUL FOR CARBAPENEM SYNTHESIS

(57) Abstract: The present disclosure provides engineered pNB esterase polypeptides useful for the synthesis of the carbapenem antibiotic, imipenem. The disclosure also provides polynucleotides encoding the engineered pNB esterases, host cells capable of expressing the engineered pNB esterases, and methods of using the engineered pNB esterases in the production of imipenem.

