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ABSTRACT

Disclosed and claimed are toluene monooxygenase (TMO) gene sequences from Pseudomonas mendocina KR-1, TMO proteins encoded by these sequences, recombinant plasmids containing such sequences, and microorganism host cells containing such plasmids. A five-gene and six-gene TMO gene cluster encode proteins that are useful in a variety of bioconversions. In particular, the TMO gene cluster is useful for the preparation of p-hydroxyphenylacetic acid and indigo. In addition, the TMO gene cluster is useful for the degradative bioconversion of toxic compounds, such as trichloroethylene.

This Sheet Has Been Replaced

