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(54) **Title:** RECOMBINANT YEASTS FOR SYNTHESIZING EPOXIDE HYDROLASES

(57) **Abstract:** The invention provides isolated Y. lipolytica cells and substantially pure cultures of Y. lipolytica cells containing exogenous nucleic acids encoding EH polypeptides, e.g., enantioselective EH polypeptides. Also featured by the invention are methods for the production of the EH polypeptides and methods for hydrolysing epoxides and for producing optically active vicinal diols and/or optically active epoxides. Also embodied by the invention are efficient integrative expression vectors.