cDNA and deduced amino acid sequence of *Drosophila* catalase

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Catalase (hydrogen peroxide:hydrogen peroxide oxidoreductase; E.C.1.11.1.6) catalyzes the breakdown of hydrogen peroxide to water and oxygen and is thought to serve a role in combatting the toxic effects of oxygen free radical damage (1). We have previously isolated partial cDNA clones by immunoselection (2). We now report the isolation of cross-hybridizing cDNA clones from a *Drosophila* λZap cDNA third instar library. The library was kindly provided by C.Thummel (U. of Utah Medical Center). The DNA and deduced amino acid sequences of the coding region from one of these cDNAs is shown below. The entire coding region spans 1518 bases. The corresponding 506 amino acid sequence exhibits 65–68% sequence identity to mammalian catalase enzymes (3–5). This clone hybridizes to a single 1.9–2.0 kb mRNA species isolated from adult *Drosophila*. We have localized this clone by means of in situ hybridization to 75D-E1 on chromosome 3L, which corresponds to the known cytological location of the catalase gene as determined by genetic analysis (6).

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