Sequence of a human liver cytochrome P-450 cDNA clone

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The following nucleotide sequence (P450 HPH) has been cloned from cDNA library of adult human liver in λgt11 by immunoscreening method. We used polyclonal antibodies against cytochrome P-450 from phenobarbital-pretreated rats. The sequence is essentially identical to the sequences H₃₁-1 and M-12 described by (1) and (2) respectively for the P-450 IIC8 type gene. The sole difference in the translatable part consists of an A-G substitution at position 356, resulting in a Lys—Arg mutation. There are minor differences in the untranslatable 3'-region (one base substitution at position 645 and one base deletion at position 778). Evidently, P-450 HPH sequence is one of the allelic variants of IIC8 gene.

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REFERENCES