

Title (en)  
HYPOXIA-INDUCIBLE HUMAN GENES, PROTEINS, AND USES THEREOF

Title (de)  
DURCH HYPOXIE-INDUZIERBARE HUMANE GENE, PROTEINE UND DEREN VERWENDUNG

Title (fr)  
GENES ET PROTEINES D'ORIGINE HUMAINE EXPRIMES DANS DES CONDITIONS D'HYPOXIE, ET UTILISATIONS DE CEUX-CI

Publication  
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Application  
**EP 99916187 A 19990329**

Priority  
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Abstract (en)  
[origin: WO9948916A2] The polynucleotide and polypeptide sequences of two novel hypoxia-inducible human genes, HIG1 and HIG2, are described. In addition, a number of known genes have now been established as being hypoxia-inducible. These genes include annexin V, lipocortin 2, hnRNP A1, Ku autoantigen, phosphoribosylpyrophosphate synthetase, acetoacetylCoA thiolase, ribosomal L7, fibroblast growth factor-3, EPH receptor ligand, plasminogen activator inhibitor-1, macrophage migration inhibitory factor, fibronectin receptor, lysyl hydroxylase-2, endothelin-2, B-cell translocation gene-1, reducing agent and tunicamycin-responsive protein, CDC-like kinase-1, quiescin, growth arrest DNA damage-inducible protein 45, DEC1, low density lipoprotein receptor related protein, hamster hairy gene homologue, adipophilin, cyclooxygenase-1, fructose biphosphatase, creatine transporter, fatty acid binding protein, lactate dehydrogenase, Bcl-2-interacting killer, Nip3L/Nix, and Pim-1. Polynucleotide and polypeptide arrays comprising the hypoxia-inducible gene sequences, proteins, or antibodies which specifically bind the proteins are disclosed. Methods for using the hypoxia-inducible gene sequences and proteins, and arrays thereof, to diagnose and treat hypoxia-related conditions such as cancer and ischemia are also provided.

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