

HNF4a Target Genes

Gene Name Full Gene Name

Nutrient Transport

Lipid and Retinol Transport

hApoAI	apolipoprotein AI
hApoAII	apolipoprotein AII
hApoAIV	apolipoprotein AIV
hApoB	apolipoprotein B
hApoCII	apolipoprotein CII
hApoCIII	apolipoprotein CIII
hApoE	apolipoprotein E
rCRBPII	cellular retinol binding protein II
rFabpi	intestinal fatty acid binding protein
hMTP	microsomal triglyceride transfer

Other Serum Proteins

hTransferrin	transferrin
mTTR	transthyretin
ha-1-AT	alpha-1-anti-trypsin
hSHBG	sex hormone-binding globulin
hSHBG	

Nutrient Metabolism

Lipid and Steroid Metabolism

hMCAD	medium-chain acyl CoA
rACO	acyl-CoA oxidase
rmitHMG-CoA	3-hydroxy-3-methylglutaryl-CoA
rHD	acyl-CoA hydratase-dehydrogenase
rTB	3-keto acyl-CoA thiolase B
hALDH3	aldehyde dehydrogenase 3

Xenobiotic Metabolism

mCYP2A4	cytochrome 2A4
rabCYP2C1	cytochrome 2C1
rabCYP2C2	cytochrome 2C2
rabCYP2C3	cytochrome 2C3
hCYP2C9	cytochrome 2C9
hCYP2D6	cytochrome 2D6
rCYP3A1	cytochrome 3A1
rCYP3A23	cytochrome 3A23
rCYP7A1	cytochrome 7A1

hCYP7	cytochrome 7
hDD/AKR	dihydrodiol dehydrogenase 4

Glucose metabolism

rPEPCK	phospho-enol-pyruvate carboxykinase
rL-PK	liver-type pyruvate kinase
rAldolaseB	aldolase B

Amino Acid Metabolism

rTAT	tyrosine amino transferase
rOTC (enh)	ornithine transcarbamylase
rOTC (enh)	ornithine transcarbamylase
rOTC	ornithine transcarbamylase
rOTC	ornithine transcarbamylase
hmitALDH2	aldehyde dehydrogenase 2
hmitALDN2	aldehyde dehydrogenase 2

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Blood Maintenance

mFactor VII	Factor VII
hFactor VII	Factor VII
hFactor VIII	Factor VIII
hFactor IX	Factor IX
hFactor IX	Factor IX
hFactor IX	Factor IX
hFactor X	Factor X
hEPO	erythropoietin
hEPO	erythropoietin
hATIII	antithrombin III
hATIII	antithrombin III
hANG	angiotensinogen
hANG	angiotensinogen

Liver Differentiation

hHNF-1a	hepatocyte nuclear factor 1 alpha
XnLFB1/HNF-1	hepatocyte nuclear factor 1 alpha
hHNF1a	hepatocyte nuclear factor 1 alpha
rHNF6	hepatocyte nuclear factor 6

Immune Function

Immune System

mBf	factor B
hMSP	macrophage stimulating protein
hMSP	macrophage stimulating protein
hAMBP	alpha-1-microglobulin & bikunin
hAMBP	alpha-1-microglobulin & bikunin
hAMBP	alpha-1-microglobulin & bikunin

Viral genes

hHBV enh I	hepatitis B virus enhancer I
hHBV enh II	hepatitis B virus enhancer II
hHBVnucleocapsid	hepatitis B virus nucleocapsid
wWHVEnII	woodchuck hepatitis virus enhancer II
HIV LTR	human immunodeficiency virus long terminal repeat

Growth Factors

hHGFL	hepatocyte growth factor-like protein
rPRLR	prolactin receptor
bGHR1a	growth hormone receptor 1a

Cell Structure and Function

hBGP	biliary glycoprotein/CEA family
hGCC	guanylyl cyclase C

Synthetic Site

Direct Repeat 1 (DR1G)	5'-AGGTCA g AGGTCA-3'
Direct Repeat 2 (DR2AA)	5'-AGGTCA aa AGGTCA-3'

Final Consensus

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GGGTCA A AGGTCA
A t C t g g T C t g
a G g c
t
    
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