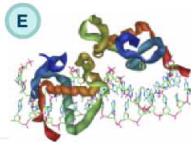


D **HNF4A**
hepatocyte nuclear factor 4,
alpha

By **Eugene Bolotin**, **Jake M. Schnabl**, and **Frances M. Sladek**
Updated August 26th, 2010



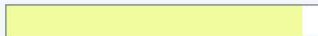
Classification *Homo sapiens* » Zinc-coordinating Group » Hormone-nuclear Receptor Family » Subfamily 2 (HNF4, RXR, TR2/4, DHR78, TLL, COUP-TF and EAR2, NR2A2/3, and 19 individual genes)

Related TF(s) [Hnf4a](#)

Homologs  (none defined here)

Links [ENSG00000101076](#)  (Ensembl) [3172](#)  (Entrez Gene)
[Homologene](#)  [606391](#)  [600281](#)  [125853](#)  [125850](#)  (OMIM)

Synonyms TCF14, TCF, NR2A21, NR2A1, MODY, MODY1, HNF4alpha, HNF4a9, HNF4a8, HNF4a7, HNF4, FLJ39654



The article completion score for this TF is 94%.

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Overview

Hepatocyte nuclear factor 4 alpha (HNF4 α , NR2A1, gene symbol *HNF4A*) is a highly conserved member of the nuclear receptor (NR) superfamily of ligand-dependent transcription factors ^[1] and an essential gene in early development as well as in the adult (Fig. 1)^{[2][3]}. HNF4 α is expressed in the adult liver, kidney, pancreas, intestine, colon and to a lesser degree in the stomach, as well as in the visceral endoderm. HNF4 α is a nuclear protein that binds DNA exclusively as a homodimer ^[4]; it also exhibits strong homodimerization activity in the absence of DNA and cannot heterodimerize with retinoid X receptor (RXR), unlike other nuclear receptors ^{[5][6]}.