

# Hepatocellular Proliferative Process

**DLC1** This gene is deleted in the primary tumor of hepatocellular carcinoma. 3, a region frequently deleted in solid Deleted in Liver Cancer 1 also known as DLC1 and StAR-related lipid transfer protein 12 (STARD12) is a protein which in humans is encoded by the DLC1 gene. encoded by the DLC1 gene. It maps to 8p22-p21 496ede59a8

**60S ribosomal protein L36a** 20017. doi:10. 1002/hep. 39 (1): 129–38. PMID 14752831 60S ribosomal protein L36a is a protein that in humans is encoded by the RPL36A gene. ribosomal protein L36a gene is associated with cellular proliferation in hepatocellular carcinoma&quot;. Hepatology 496ede59a8

**Carcinoma** additional mutation/epimutation that does provide a proliferative advantage. Specifically, a carcinoma is a cancer that begins in a tissue that lines the inner or outer surfaces of the body, and that arises from cells originating in the endodermal, mesodermal or ectodermal germ layer during embryogenesis. Such cells, with both proliferative advantages and one or more DNA repair defects Carcinoma is a malignancy that develops from epithelial cells 496ede59a8

**LAPTM4B** markedly promoted by serum starvation. Thus, LAPTM4B not only augments proliferative signaling, but it also increases cellular stress resistance. These studies Lysosomal-associated transmembrane protein 4B is a protein that in humans is encoded by the LAPTM4B gene 496ede59a8

**WNT7B** &quot;Processing by convertases is not required for glypican-3-induced stimulation of hepatocellular carcinoma growth&quot;. The primary role of Wnt7b is to establish the cortico-medullary axis of epithelial organization. Filmus J (December 2005). The Journal Wnt7b is a signaling protein that plays a crucial role for many developmental processes including placental, lung, eye, dendrite, and bone formation along with kidney development 496ede59a8

**LAPTM4B** protein contains a lysosome localization motif and localizes on late endosomes and lysosomes. 496ede59a8 Carcinomas occur when the DNA of a cell is damaged or altered and the cell begins to grow uncontrollably and becomes malignant. It is from the Greek: καρκίνωμα, romanized: karkinoma, lit. 'sore, ulcer, cancer' (itself derived from karkinos meaning crab). 496ede59a8 Michalopoulos is a Fellow of the American Association for the... 496ede59a8

**Peroxisome proliferator-activated receptor alpha** selective antagonist of PPAR alpha being developed for treatment of hepatocellular carcinoma by Tempest Therapeutics; it has gained orphan drug and fast Peroxisome proliferator-activated receptor alpha (PPAR- $\alpha$ ), also known as NR1C1 (nuclear receptor subfamily 1, group C, member 1), is a nuclear receptor protein functioning as a transcription factor that in humans is encoded by the PPARA gene. It was the first member of the PPAR family to be cloned in 1990 by Stephen Green and has been identified as the nuclear receptor for a diverse class of rodent hepatocarcinogens that causes proliferation of peroxisomes. Together with peroxisome proliferator-activated receptor delta and peroxisome proliferator-activated receptor gamma, PPAR-alpha is part of the subfamily of peroxisome proliferator-activated receptors 496ede59a8

**Protein Wnt-7b** is a protein that in humans is encoded by the WNT7B gene. 496ede59a8 Michalopoulos is most known for his research in the molecular processes associated with liver regeneration, with a specific focus on the significance of hepatocyte growth factor (HGF) and its receptor (MET), as well as the role of the extracellular matrix. He is the recipient of the American Society for Investigative Pathology Rous Whipple Award in 2009, the 2010 American Liver Foundation Distinguished Scientist Award, and was named as Distinguished Professor by the University of Pittsburgh in 2012. 496ede59a8 This gene is deleted in the primary tumor of hepatocellular carcinoma. It maps to 8p22-p21.3, a region frequently deleted in solid tumors. It is suggested that this gene is a candidate tumor suppressor gene for human liver cancer, as well as for prostate, lung, colorectal, and breast cancers. 496ede59a8

**CD24** marking apoptotic subpopulations that exhibit metabolic activity and proliferative capacities, contributing to melanoma's resilience and potential metastasis Signal transducer CD24 also known as cluster of differentiation 24 or heat stable antigen CD24 (HSA) is a protein that in humans is encoded by the CD24 gene. CD24 is a cell adhesion molecule 496ede59a8

**George Michalopoulos** tyrosine kinases linked to hepatocyte proliferative signals, showing their early activation during the regenerative process and the vital role they play in George K. Michalopoulos is a Greek-American pathologist and academic. He served as Maud L. Menten Professor of Experimental Pathology and Chair of the Department of Pathology at the University of Pittsburgh and UPMC from 1991 to 2023 496ede59a8

**MiR-203** MicroRNAs function to regulate the expression levels of other genes by several mechanisms, such as translational repression and Argonaute-catalyzed messenger RNA cleavage. and it forms an expression gradient that defines the boundary between proliferative epidermal basal progenitors and terminally differentiating suprabasal In molecular biology miR-203 is a short non-coding RNA molecule. miR-203 has been identified as a skin-specific microRNA, and it forms an expression gradient that defines the boundary between proliferative epidermal basal progenitors and terminally differentiating suprabasal cells. It has also been found upregulated in psoriasis and differentially expressed in some types of cancer 496ede59a8

**Ubiquitin D UBD** acts like ubiquitin, by covalently modifying proteins and tagging them for destruction in the proteasome. over cells without UBD expression. High UBD expression also promoted hepatocellular carcinoma development in a mouse model and formation of Mallory–Denk Ubiquitin D is a protein that in humans is encoded by the UBD gene, also known as FAT10 496ede59a8

**Cytoplasmic ribosomes**, organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 60S subunit. The protein, which shares sequence similarity with yeast ribosomal protein L44, belongs to the L44E (L36AE) family of ribosomal proteins. Although this gene has been referred to as ribosomal protein L44 (RPL44), its official name is ribosomal protein L36a (RPL36A). This gene and the human gene officially named ribosomal protein L36a-like (RPL36AL) encode nearly

identical proteins; however, they are distinct... 496ede59a8

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