

## **Additional File 4**

# **An epithelial-to-mesenchymal transition model recovers and predicts critical mutations underlying hepatic cancer stem cells emergence**

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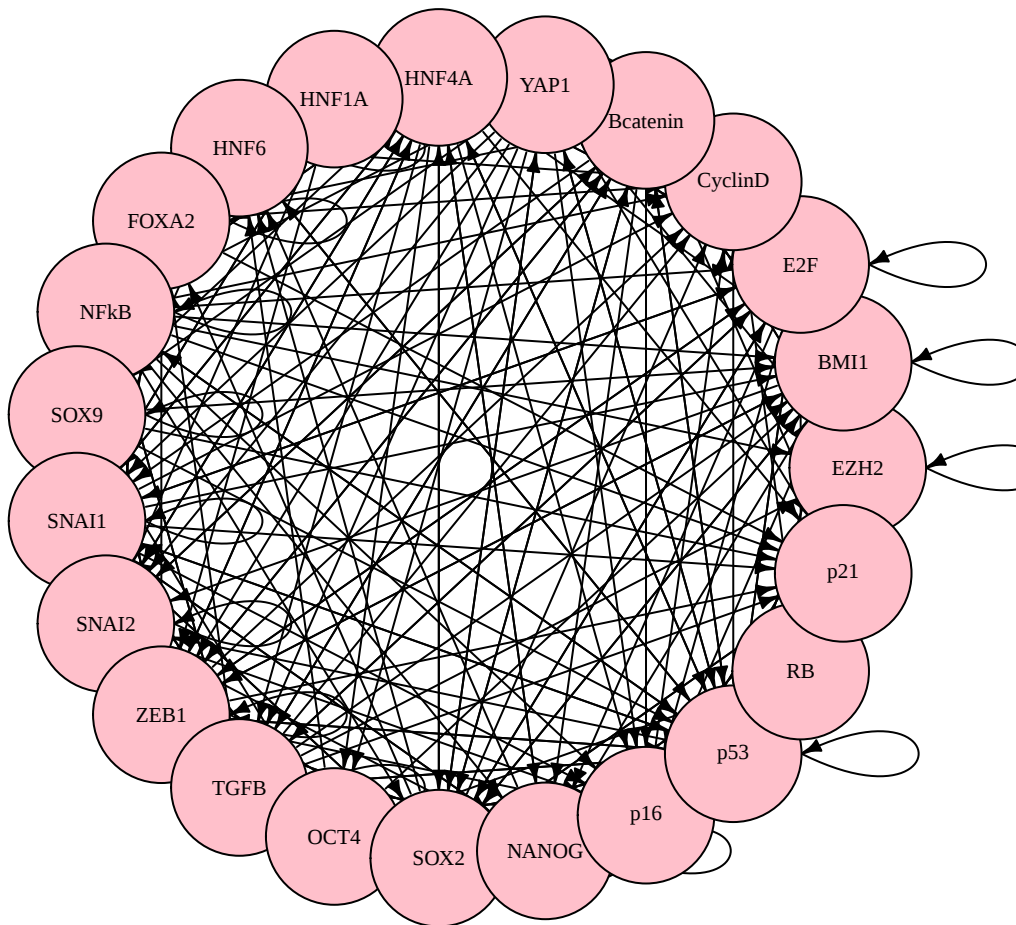
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<sup>2</sup>Laboratorio de Neuroendocrinología, Centro Universitario de Investigaciones Biomédicas (CUIB), Universidad de Colima, Colima, México.

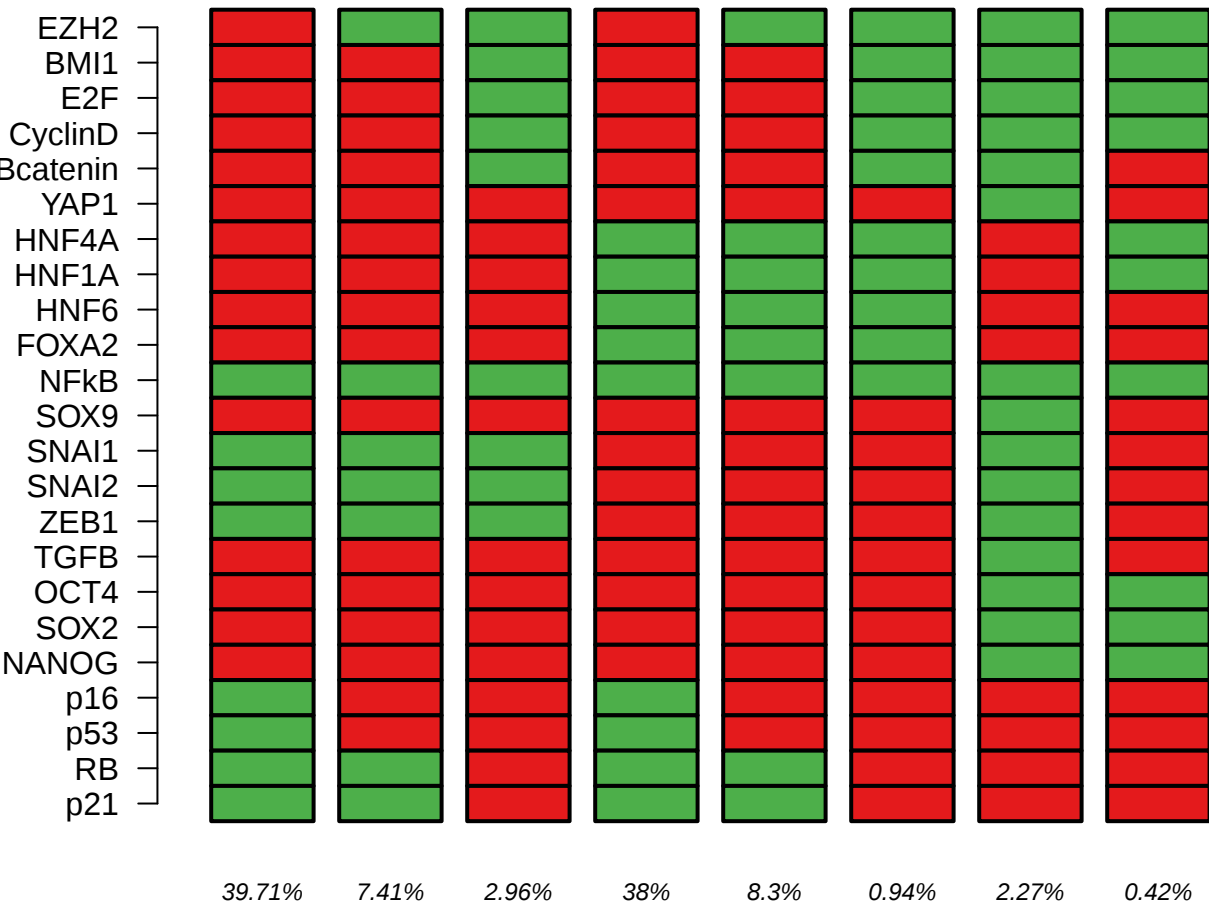
<sup>3</sup>Departamento de Control Automático, Cinvestav-IPN, Ciudad de México, México.

<sup>4</sup>Centro de Ciencias de la Complejidad (C3), Universidad Nacional Autónoma de México, Ciudad de México, México.

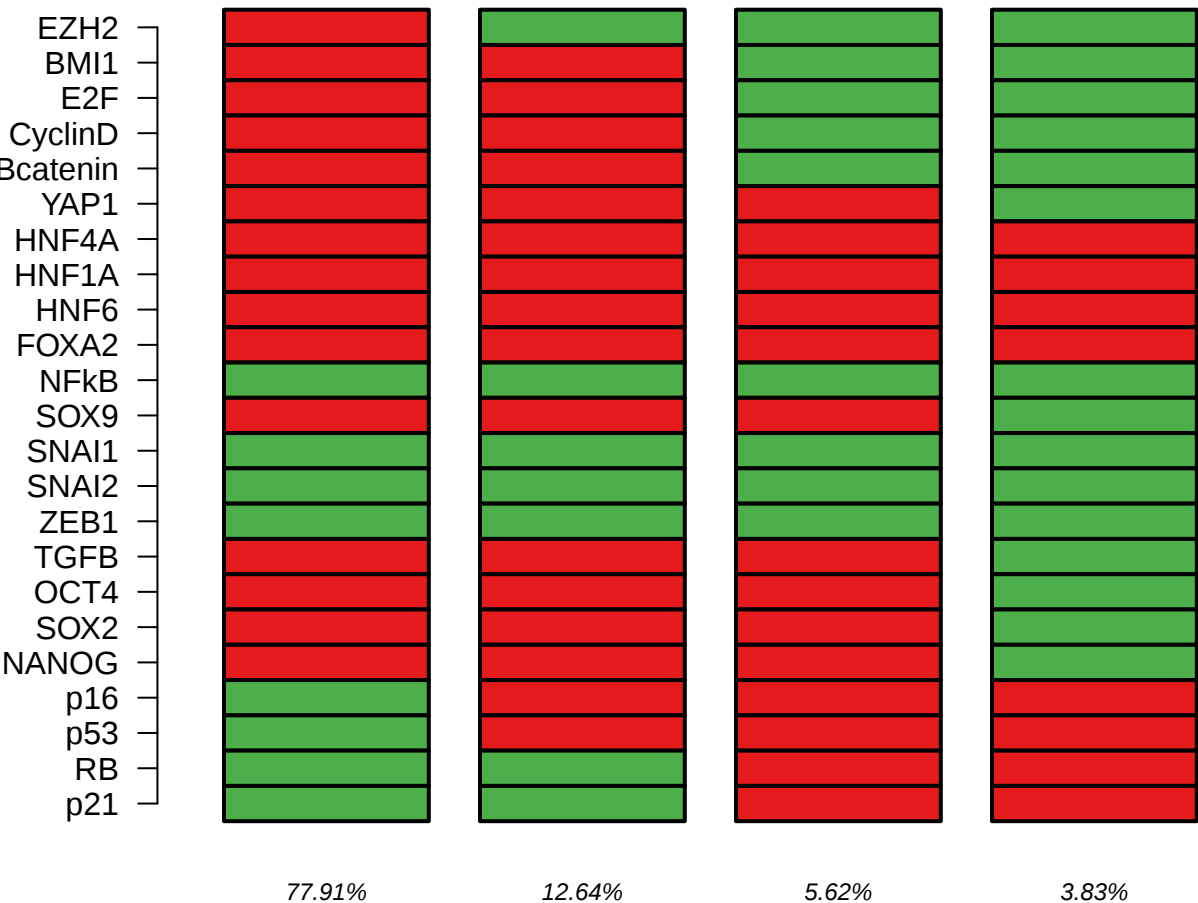
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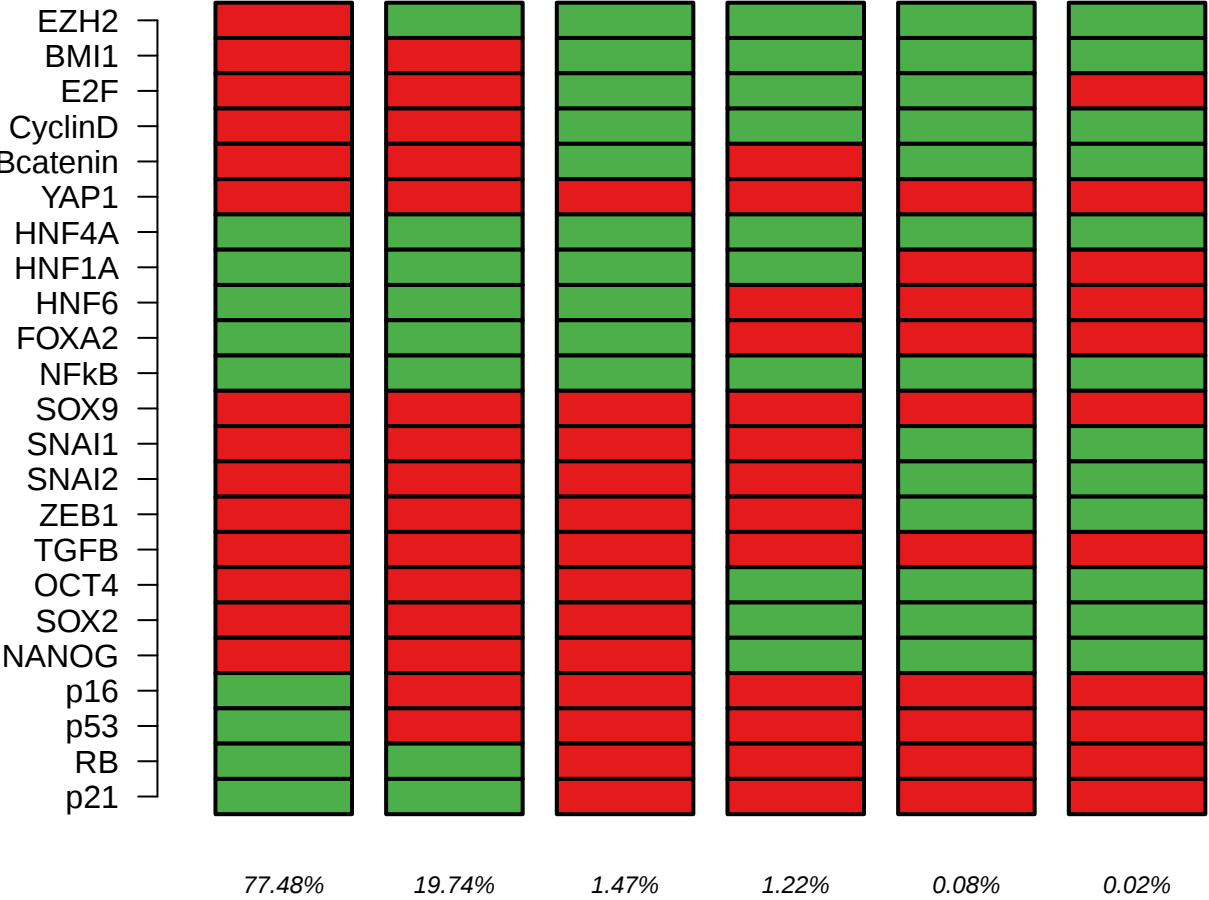
**WT model**  
**Attractors with 1 state(s)**



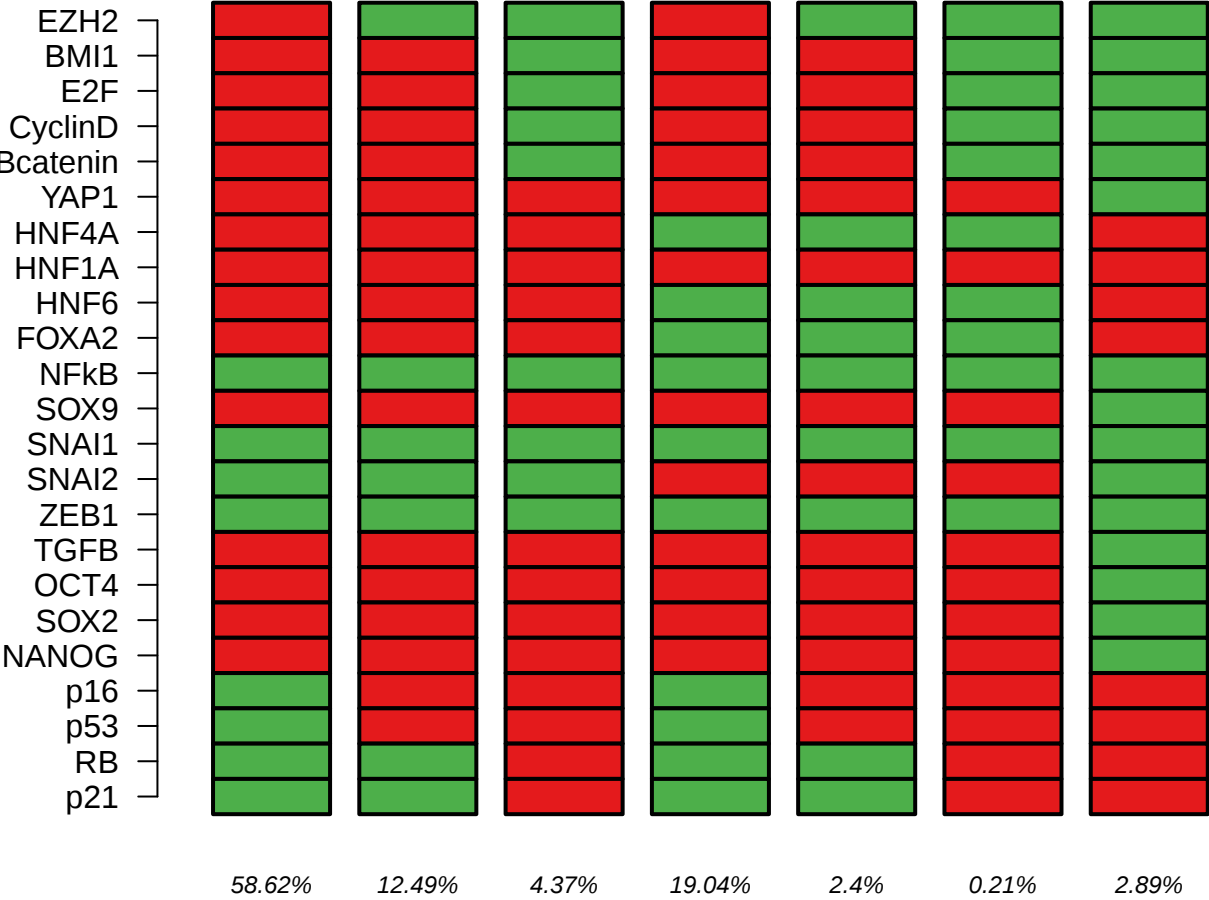
**HNF4A loss of function**  
**Attractors with 1 state(s)**



**HNF4A gain of function**  
**Attractors with 1 state(s)**



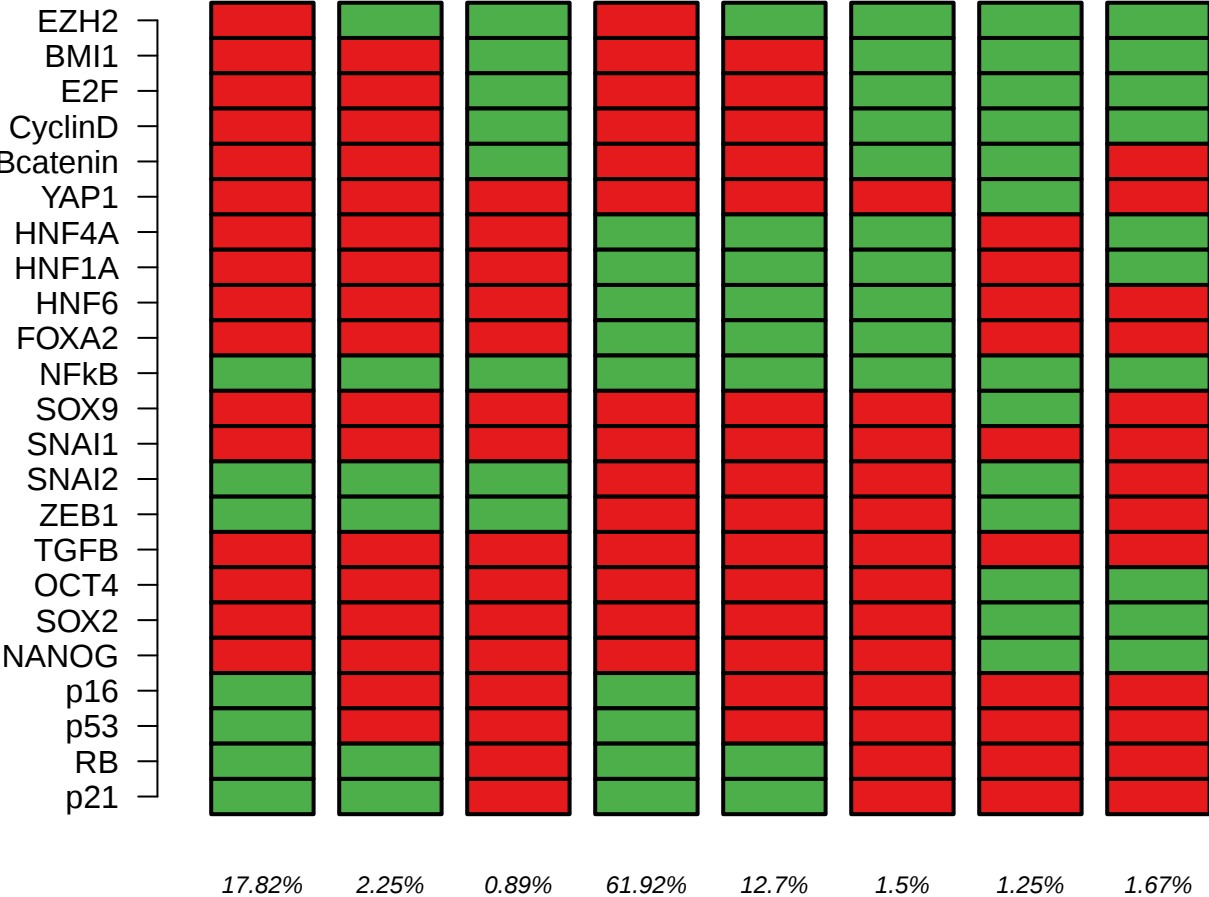
**HNF1A loss of function**  
**Attractors with 1 state(s)**



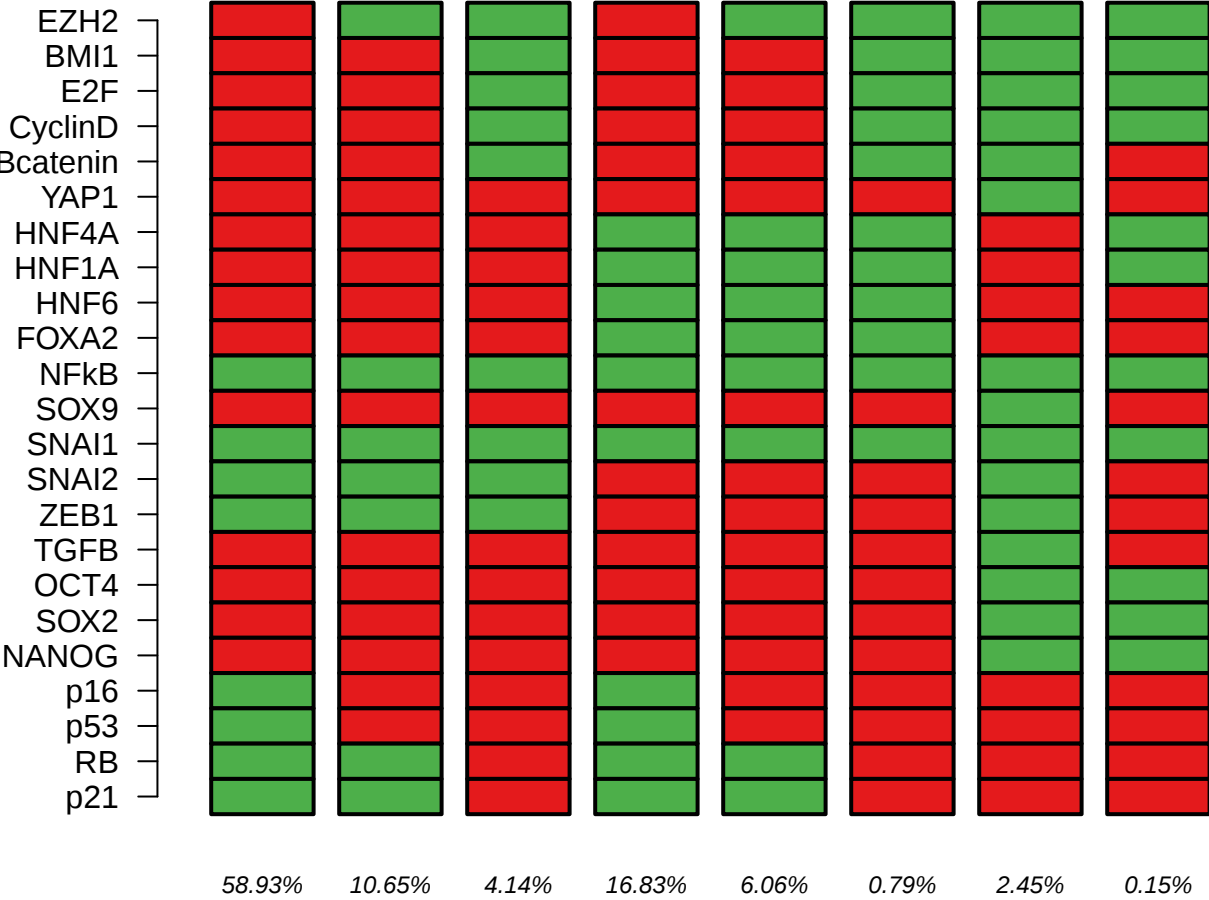
**HNF1A gain of function**  
**Attractors with 1 state(s)**



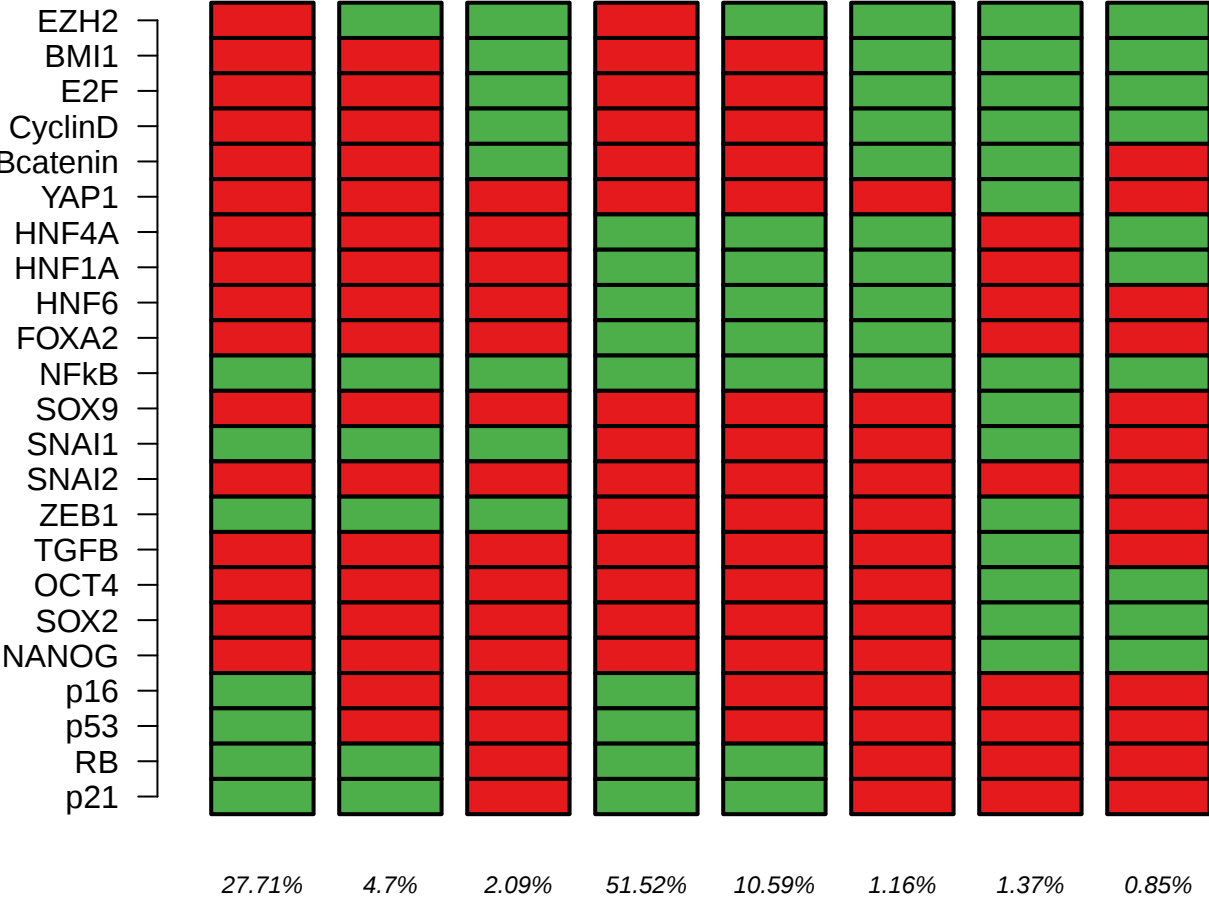
**SNAI1 loss of function**  
**Attractors with 1 state(s)**



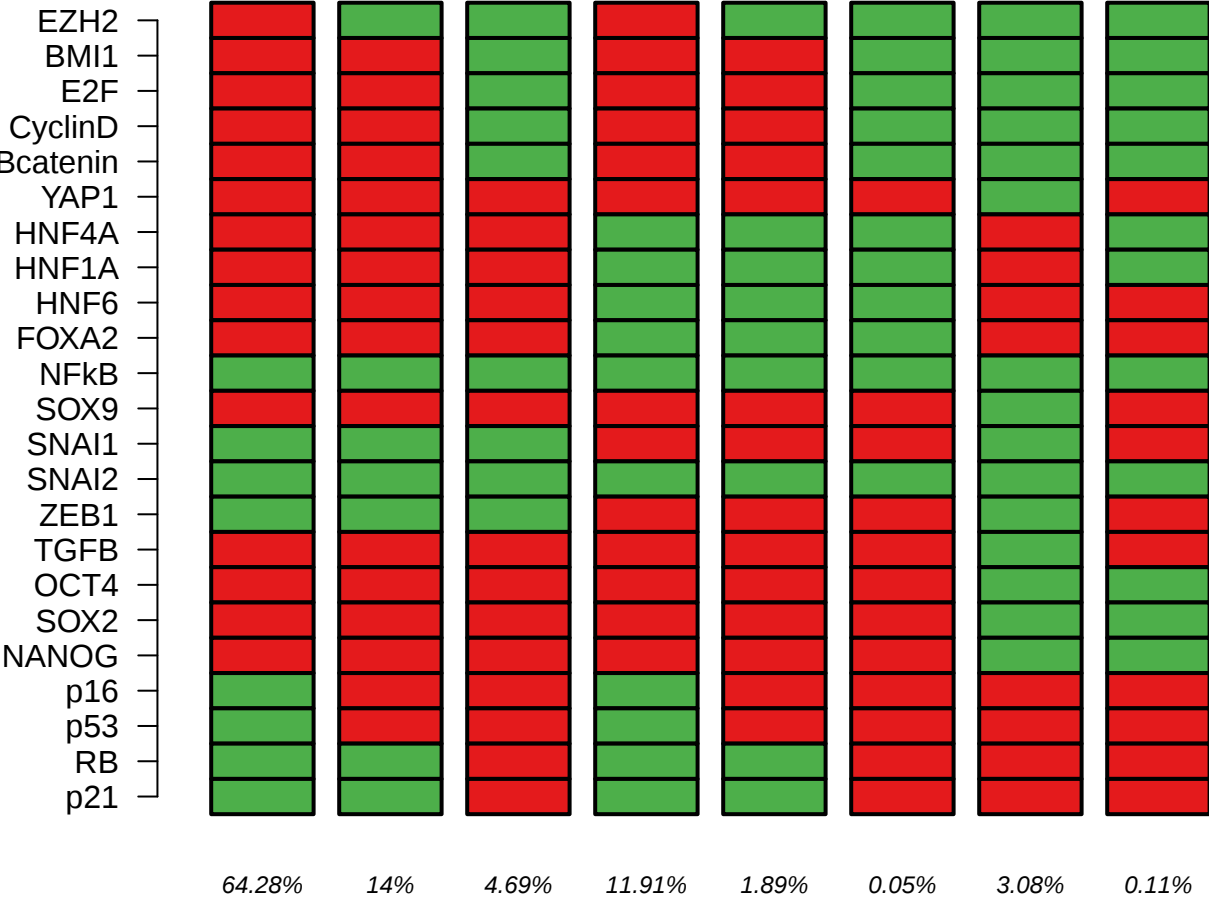
**SNAI1 gain of function**  
**Attractors with 1 state(s)**



**SNAI2 loss of function**  
**Attractors with 1 state(s)**

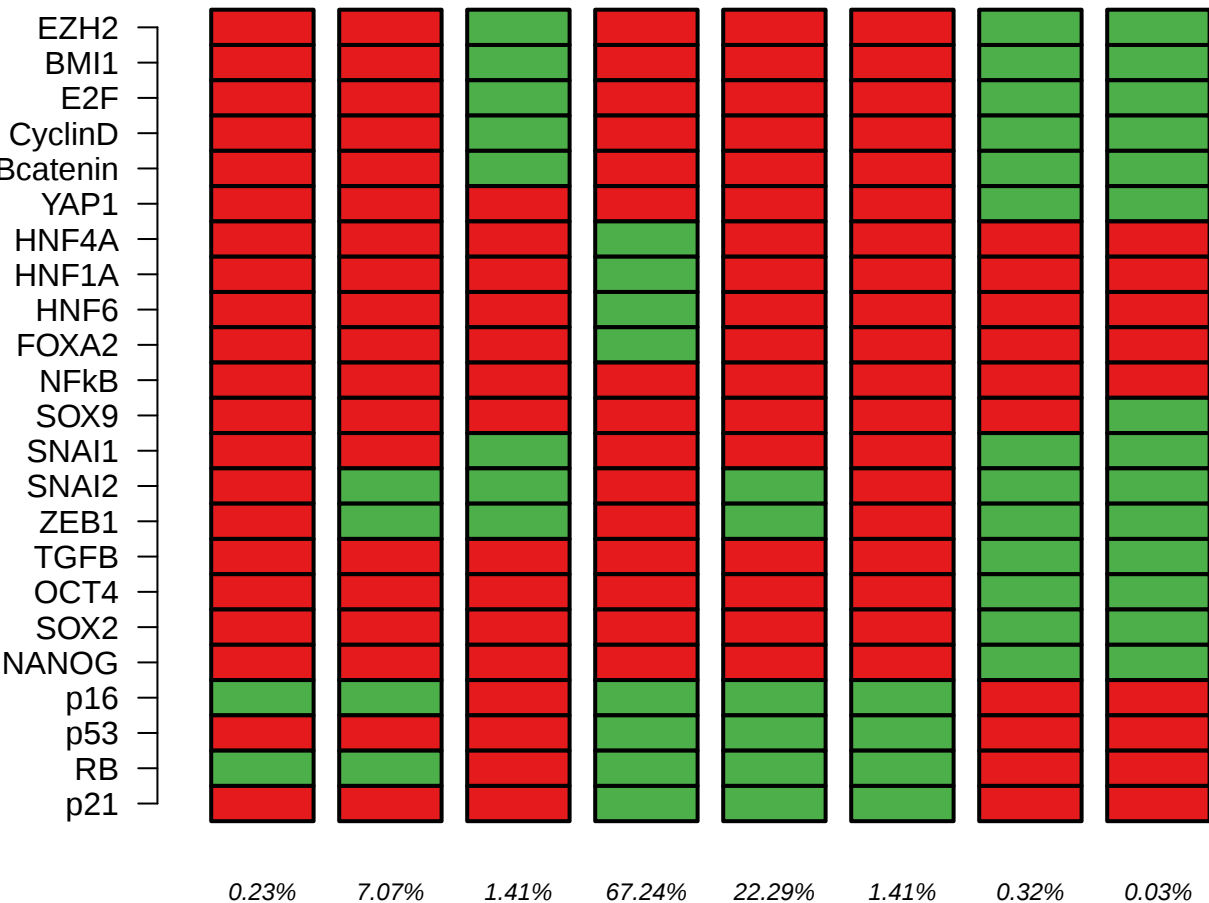


**SNAI2 gain of function**  
**Attractors with 1 state(s)**

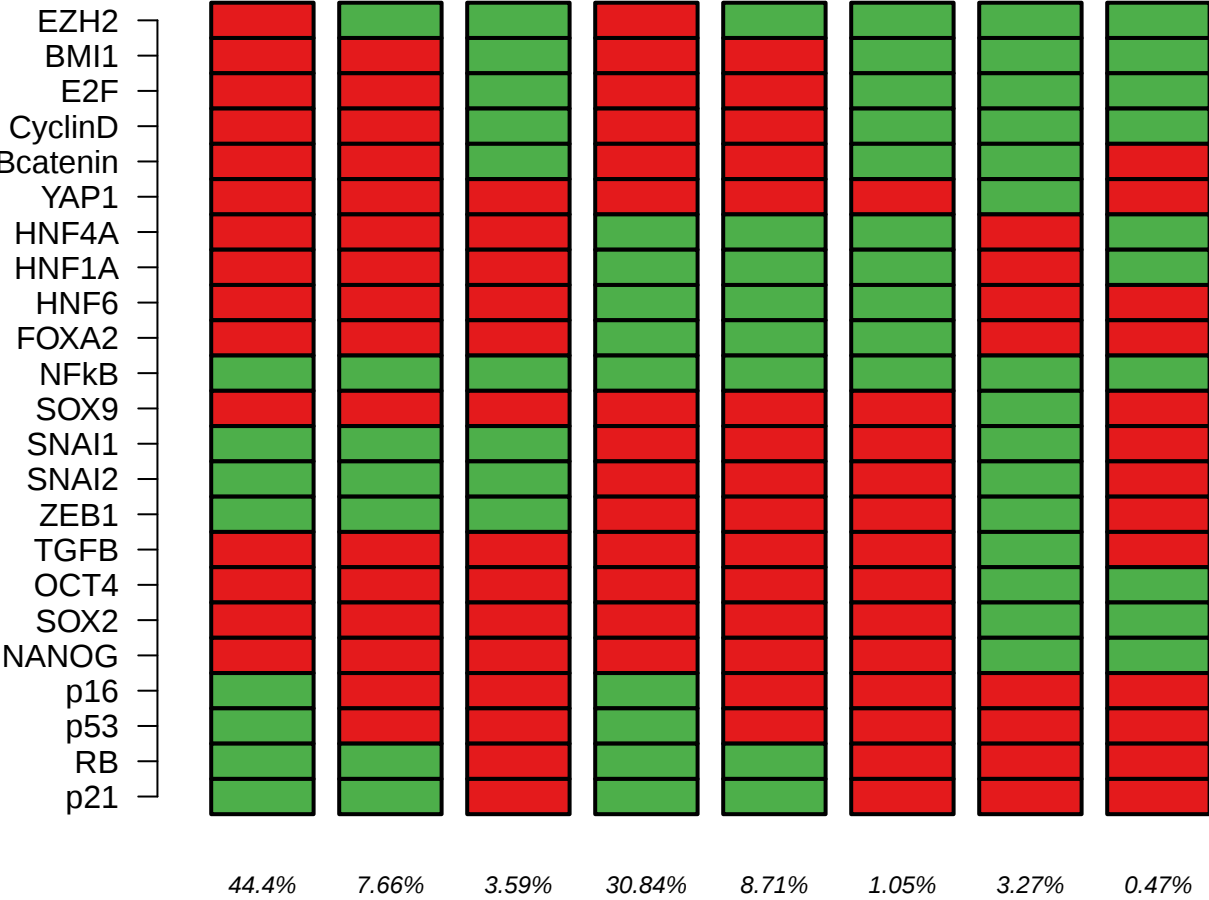


# NFkB loss of function

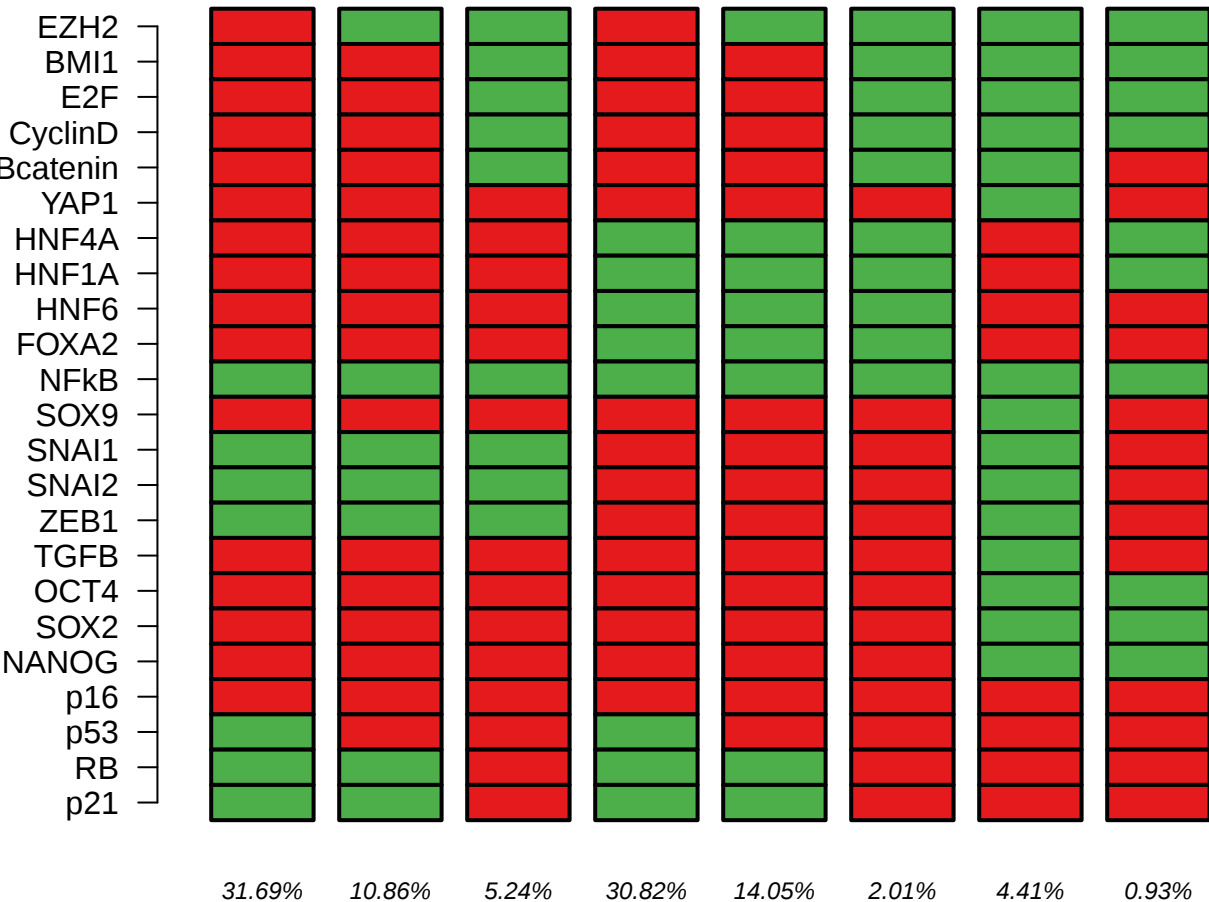
## Attractors with 1 state(s)



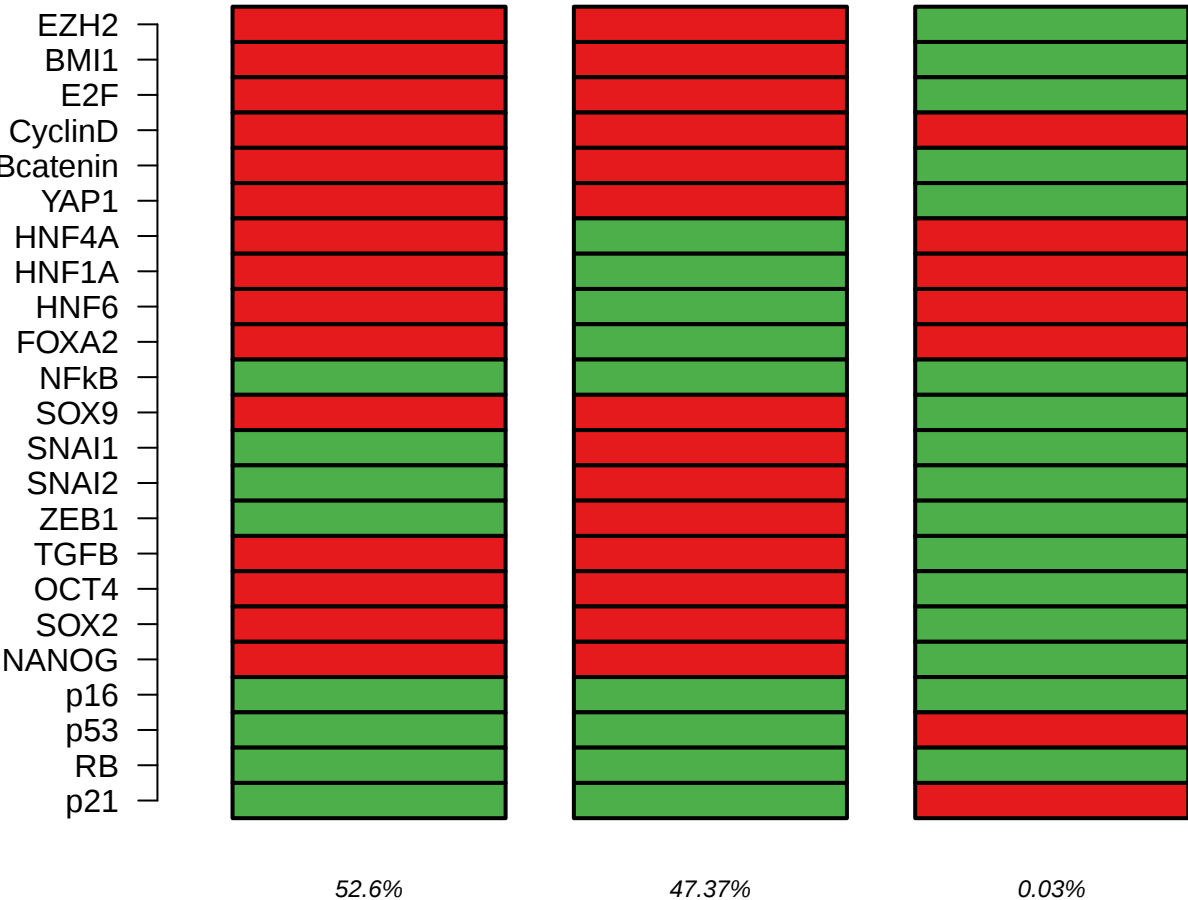
**NFkB gain of function**  
**Attractors with 1 state(s)**



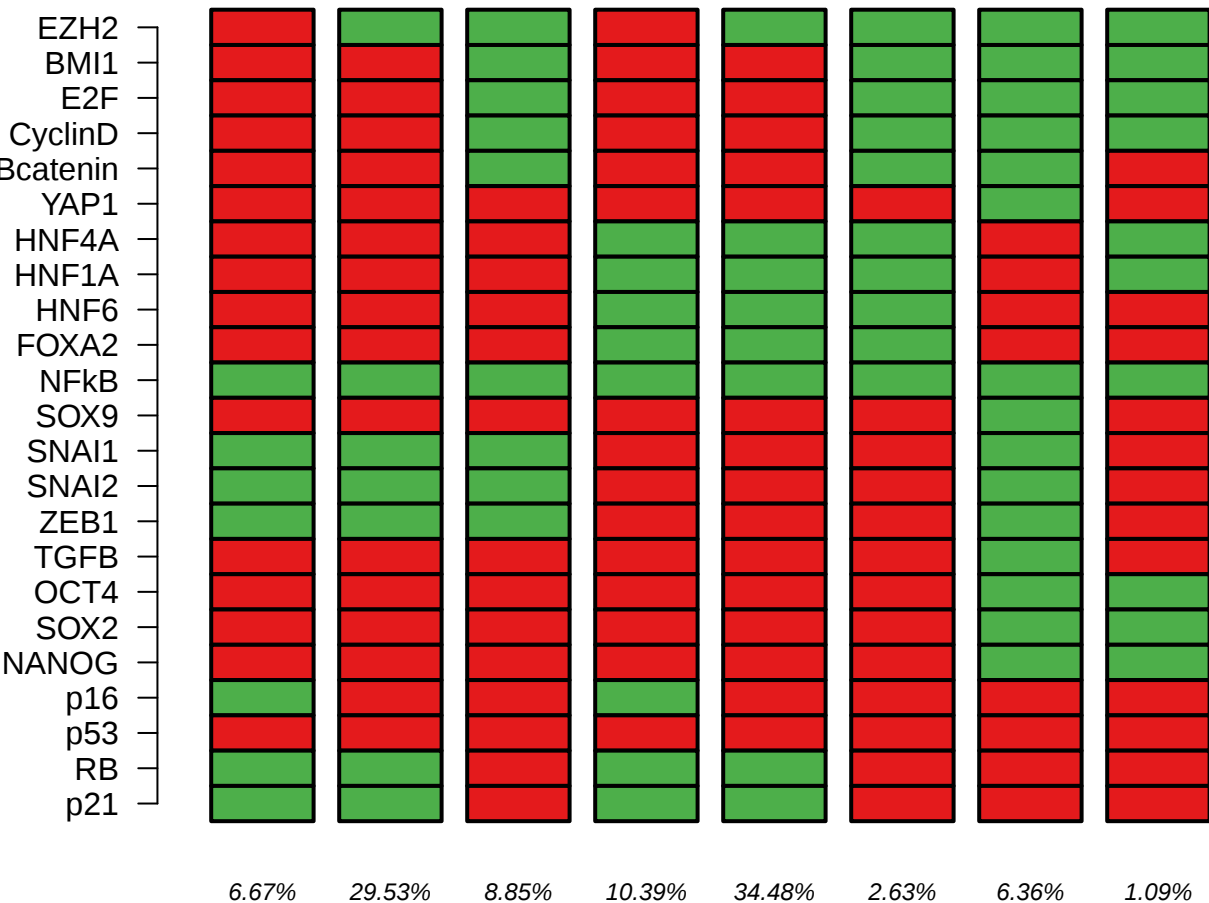
**p16 loss of function**  
**Attractors with 1 state(s)**



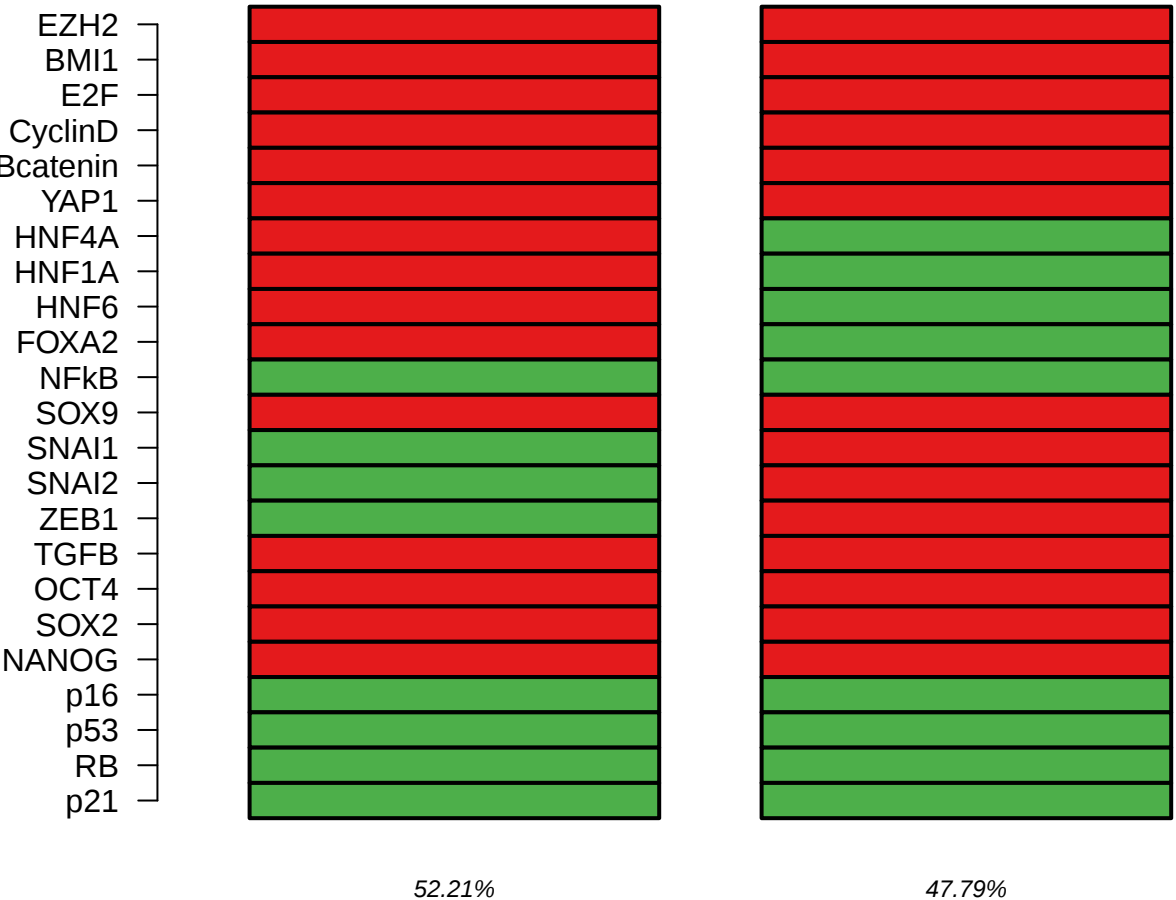
**p16 gain of function**  
**Attractors with 1 state(s)**



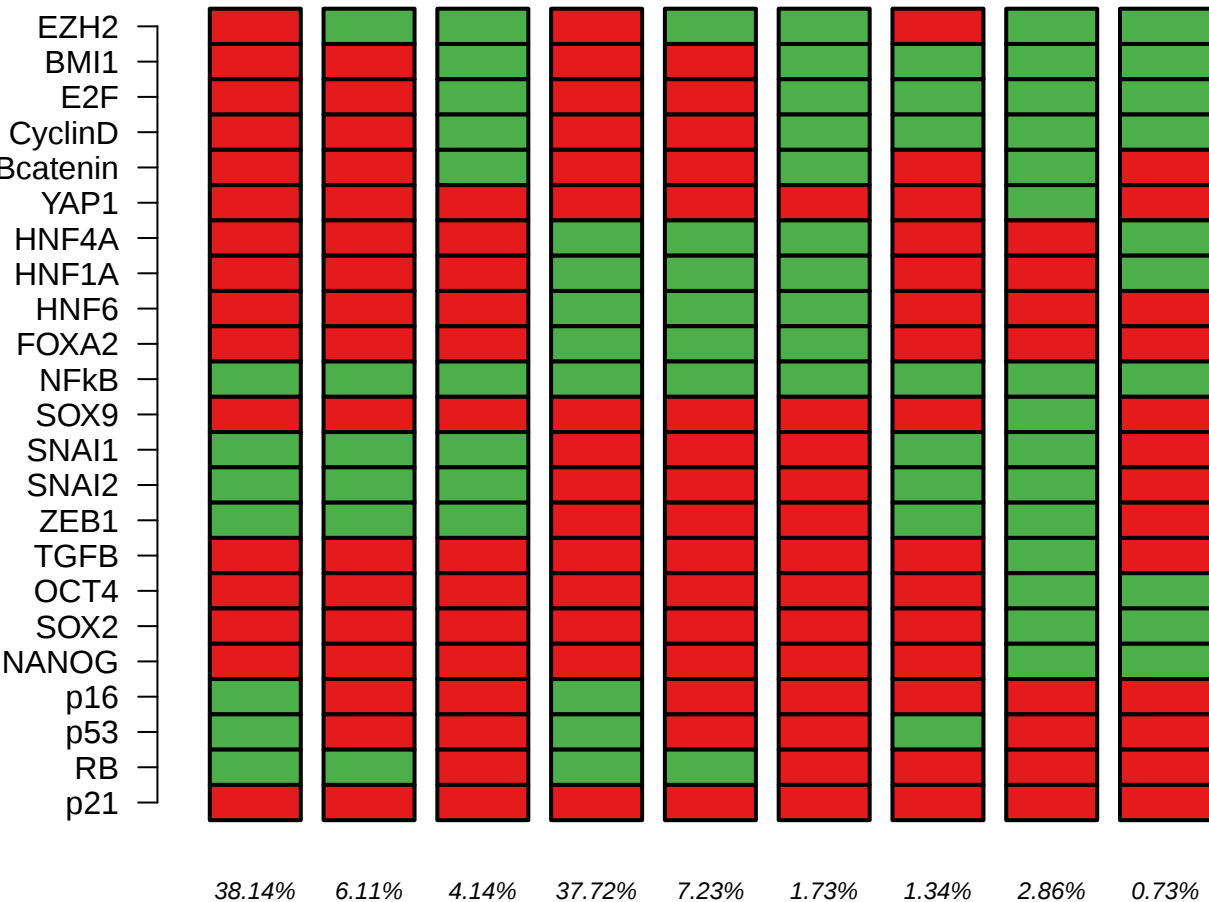
**p53 loss of function**  
**Attractors with 1 state(s)**



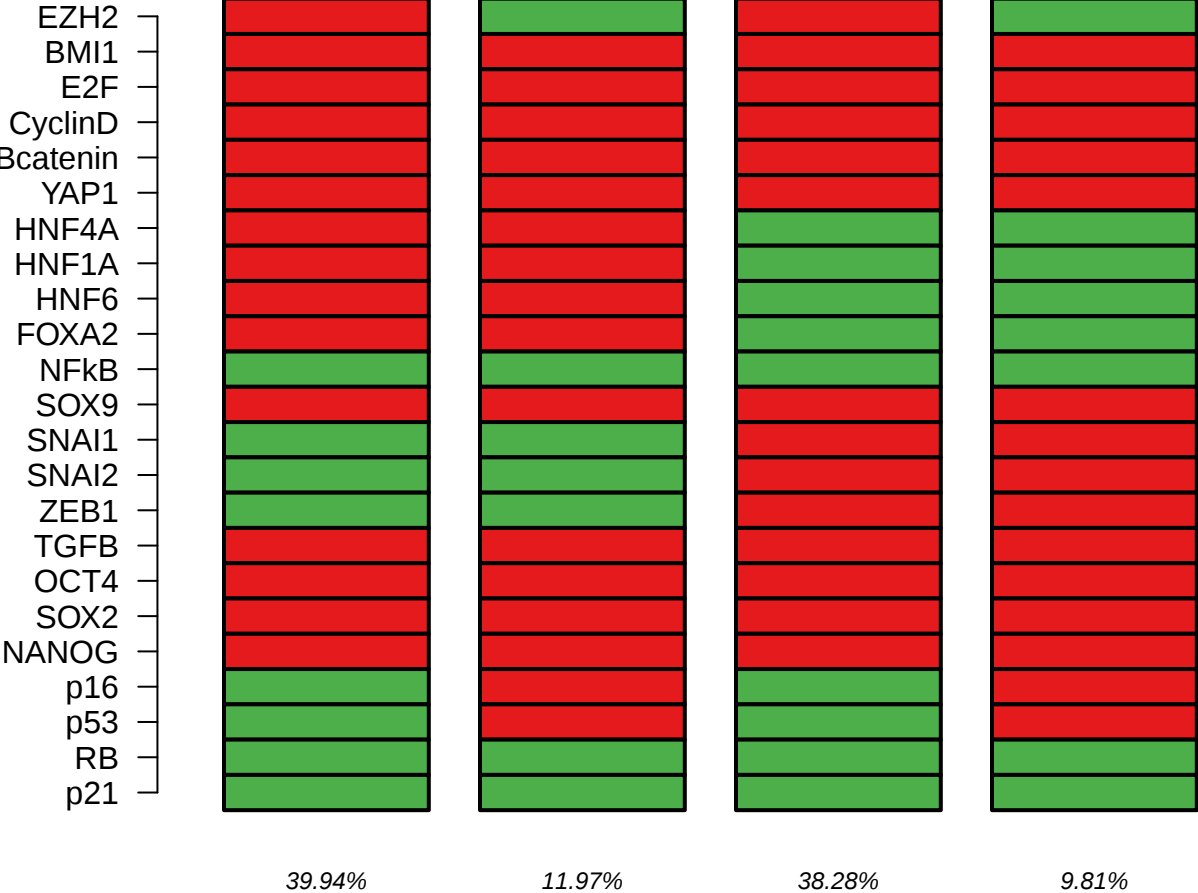
**p53 gain of function**  
**Attractors with 1 state(s)**



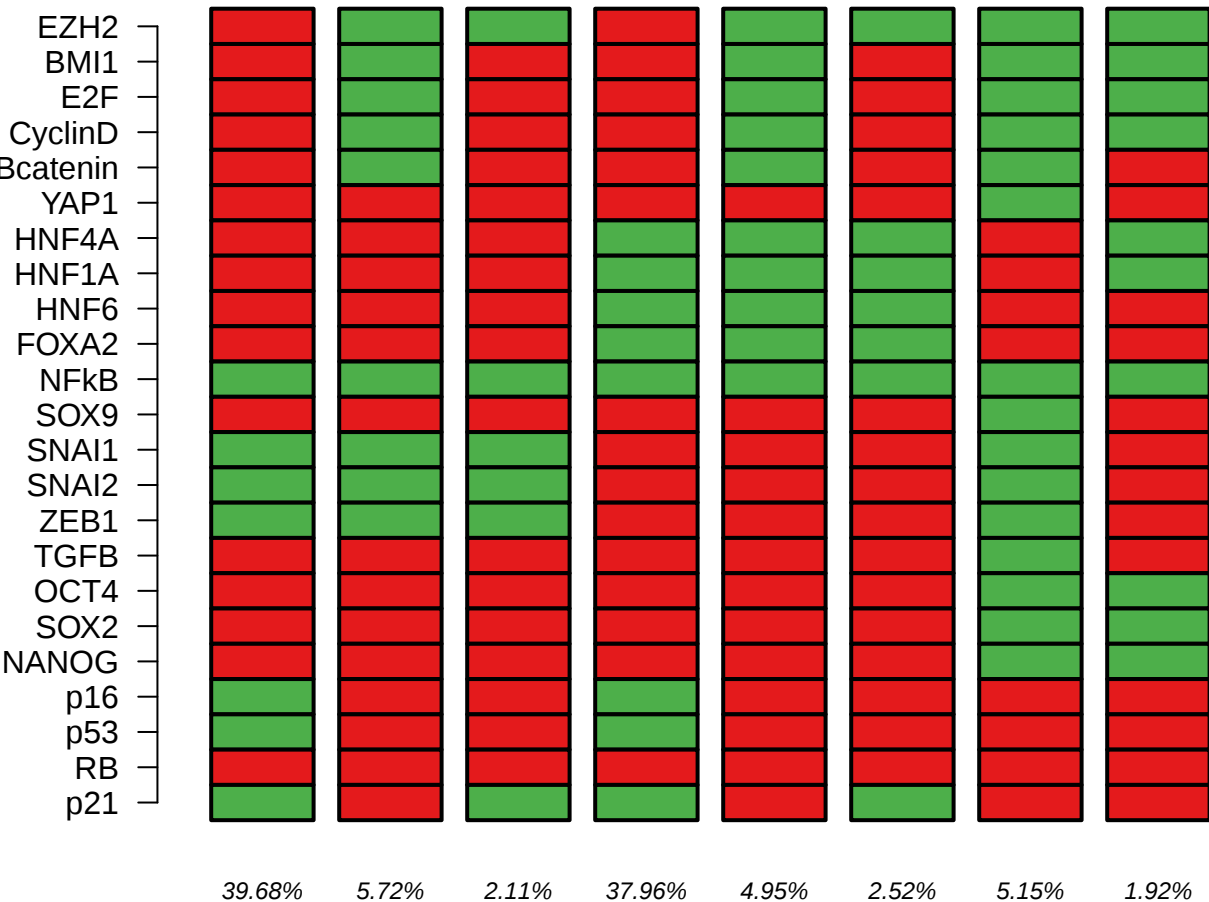
**p21 loss of function**  
**Attractors with 1 state(s)**



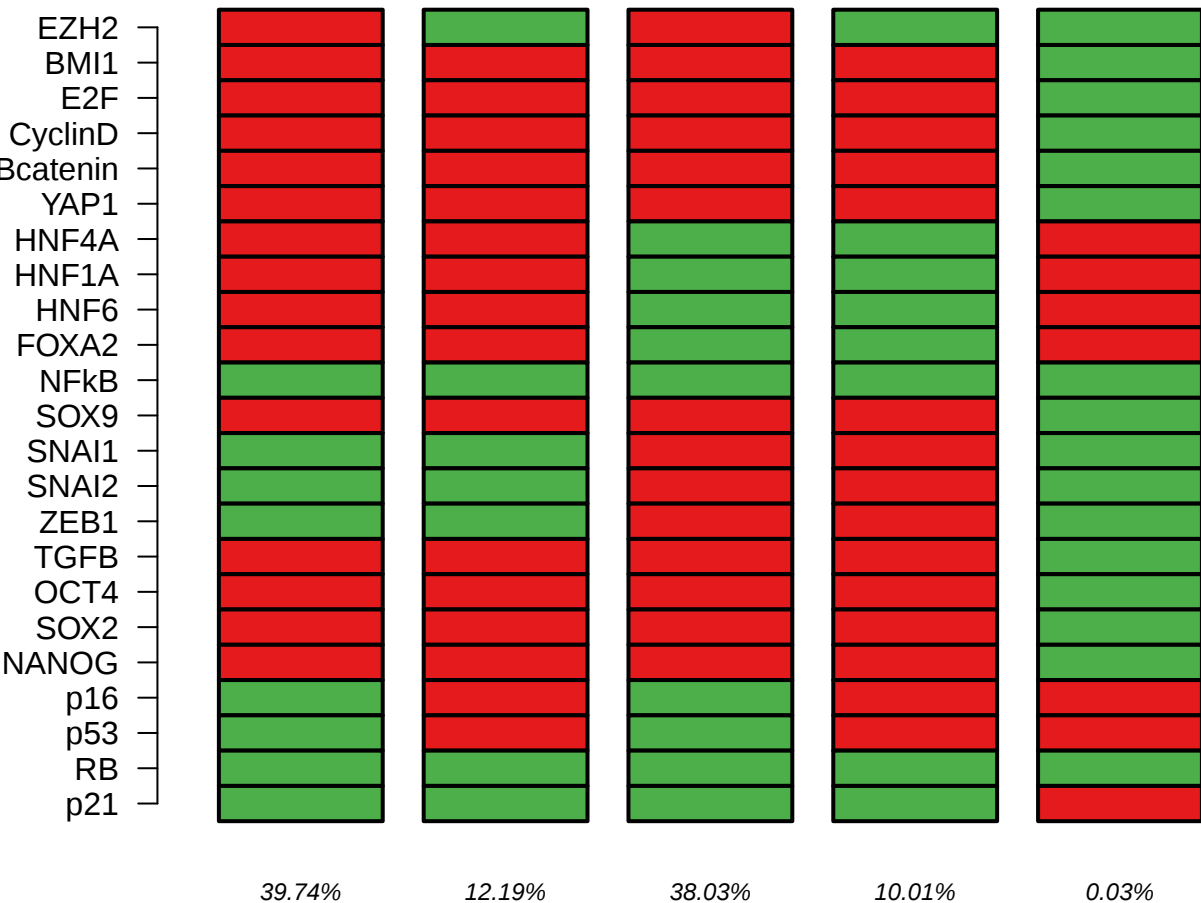
**p21 gain of function**  
**Attractors with 1 state(s)**



**RB loss of function**  
**Attractors with 1 state(s)**

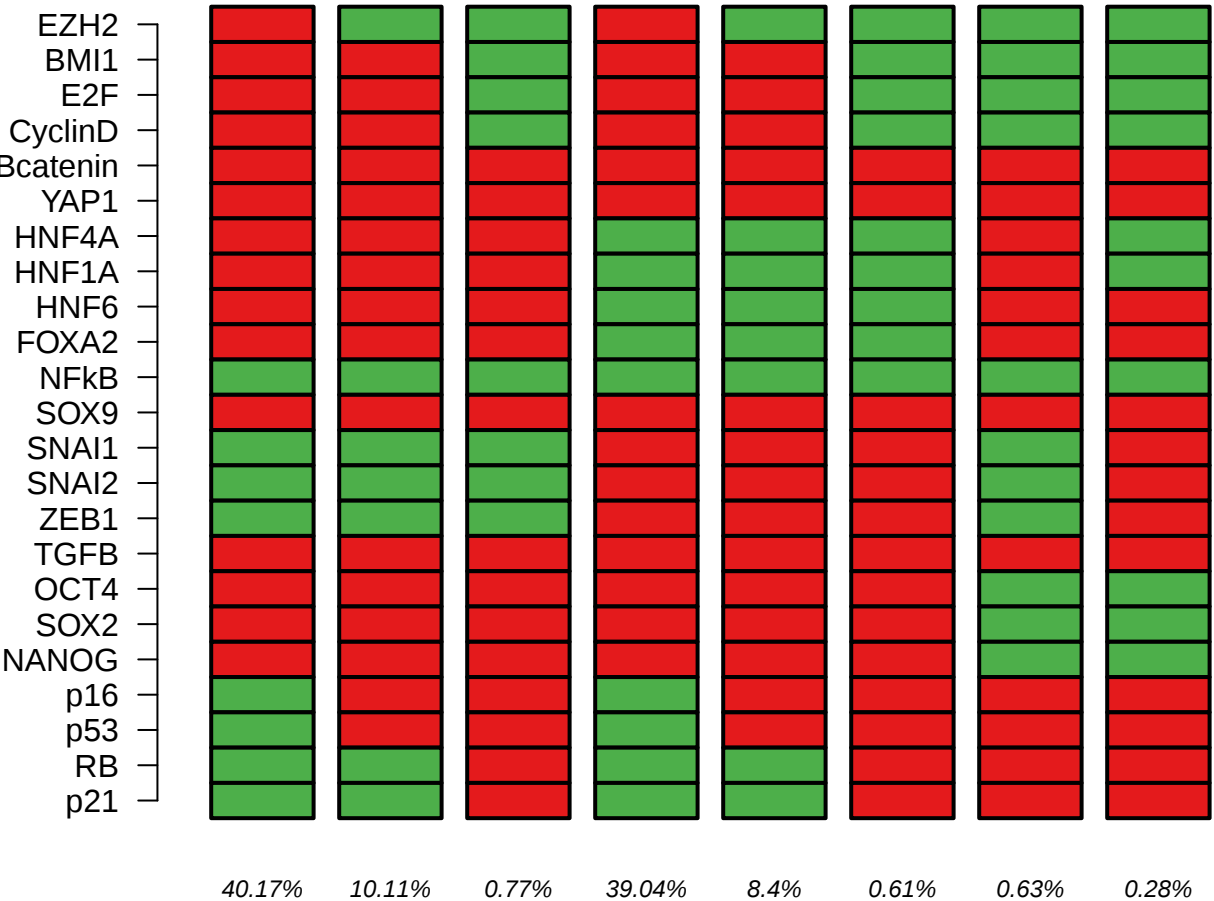


**RB gain of function**  
**Attractors with 1 state(s)**

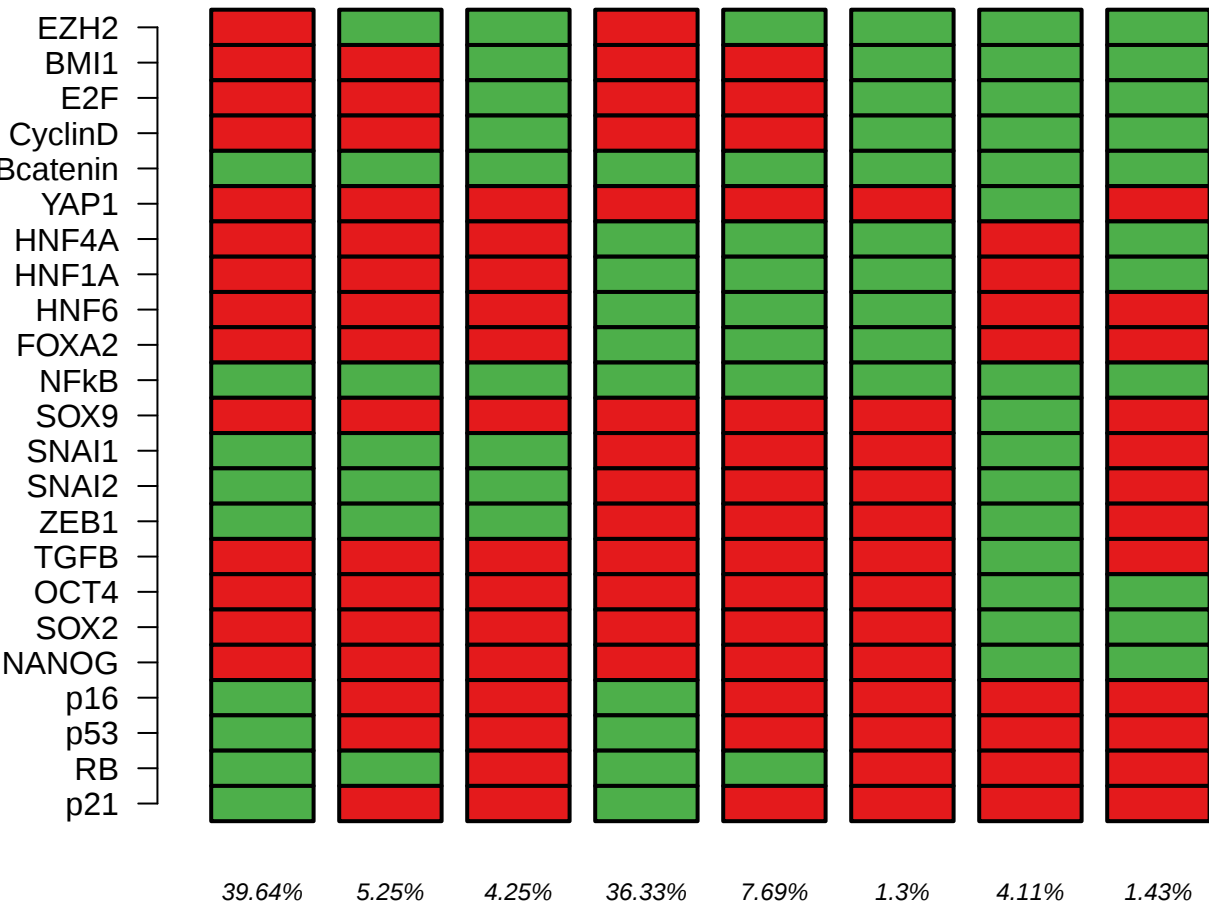


# Bcatenin loss of function

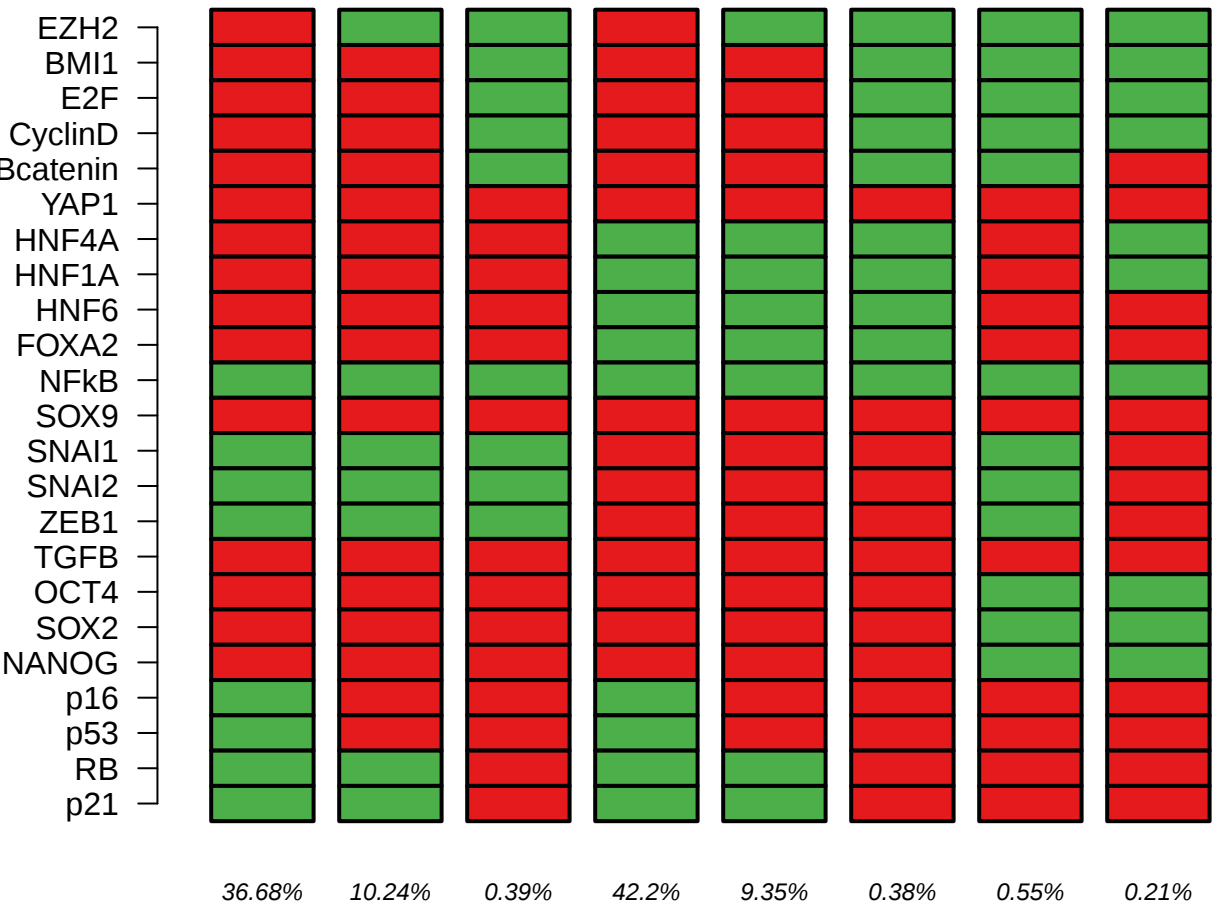
## Attractors with 1 state(s)



**Bcatenin gain of function**  
**Attractors with 1 state(s)**

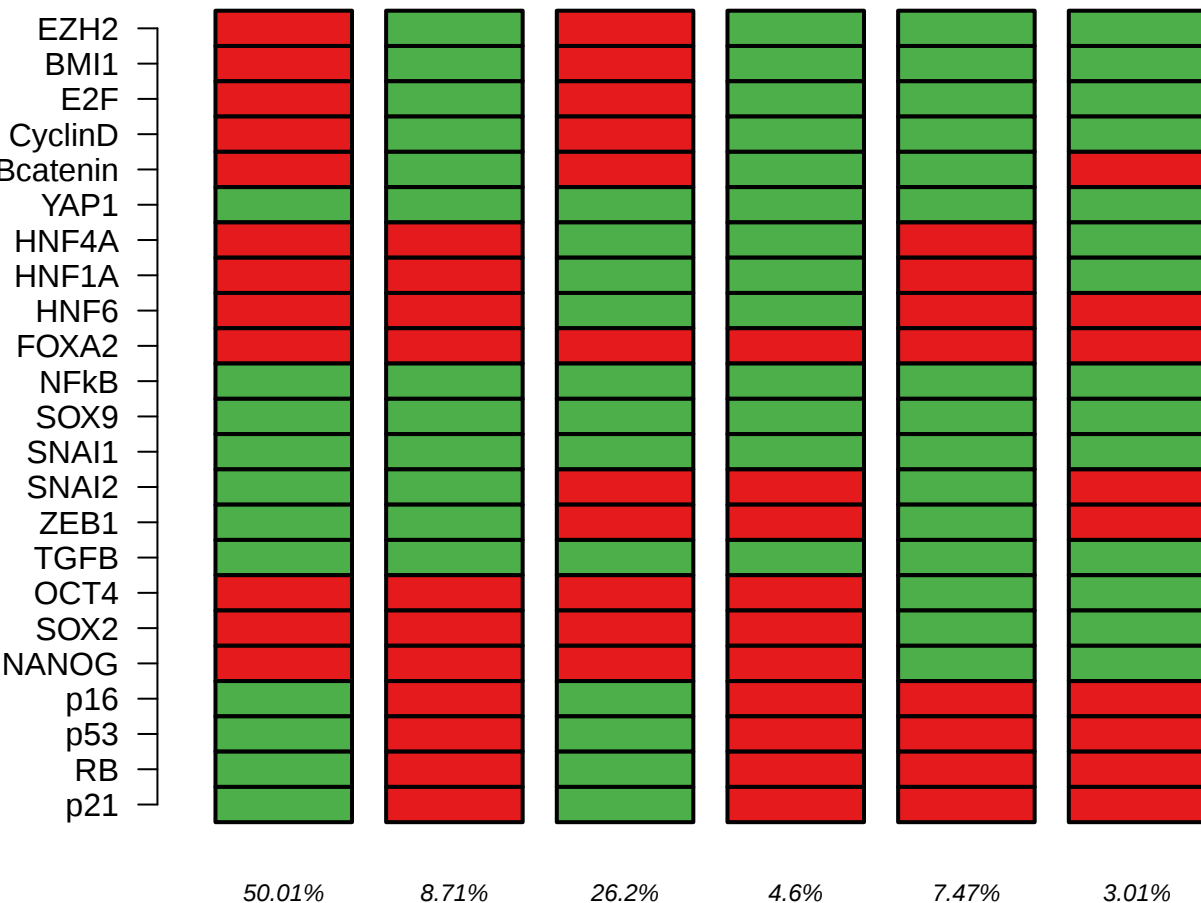


**YAP1 loss of function**  
**Attractors with 1 state(s)**

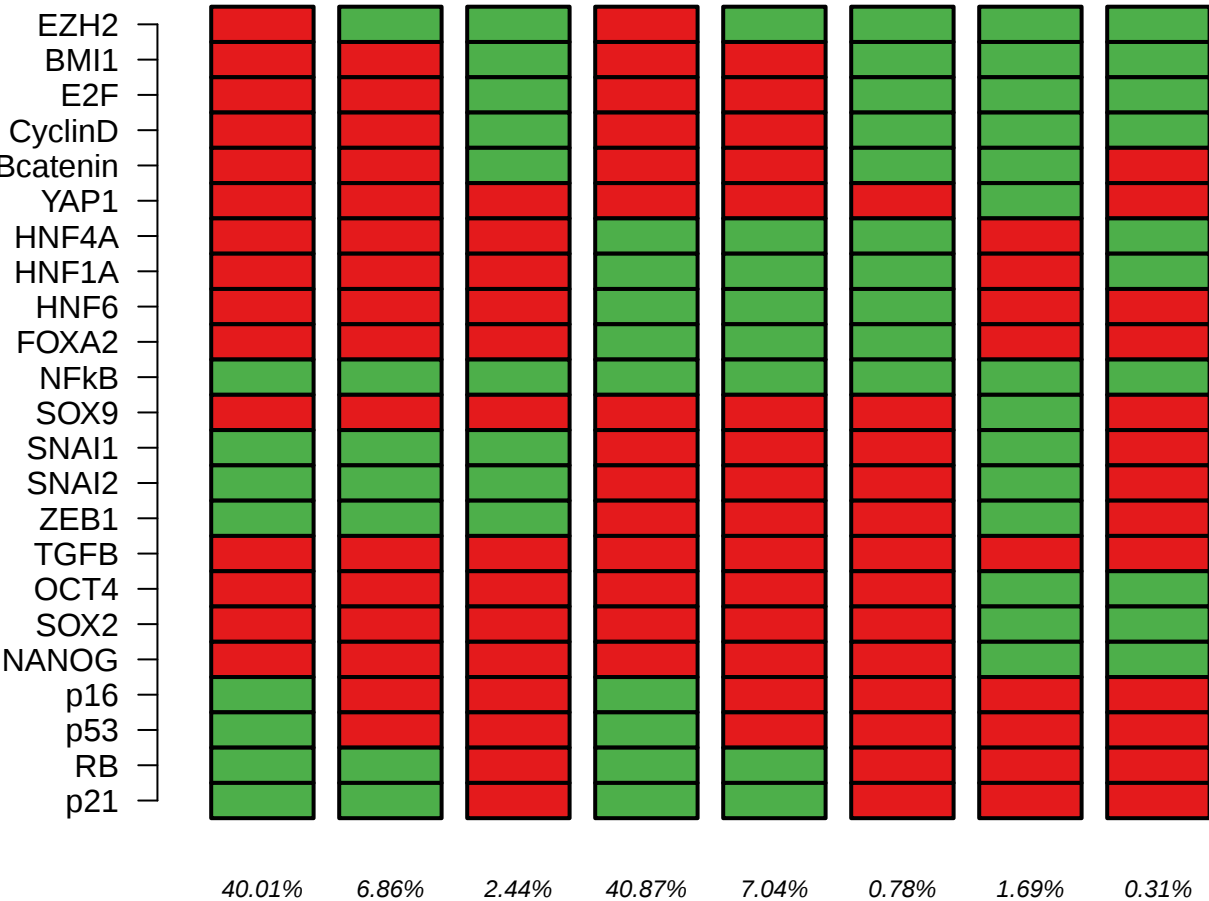


# YAP1 gain of function

## Attractors with 1 state(s)



**TGFB loss of function**  
**Attractors with 1 state(s)**



**TGFB gain of function**  
**Attractors with 1 state(s)**

