

Additional File 4

A mathematical-computational model explains phenotypic plasticity changes by mutations underlying hepatic cancer stem cells emergence

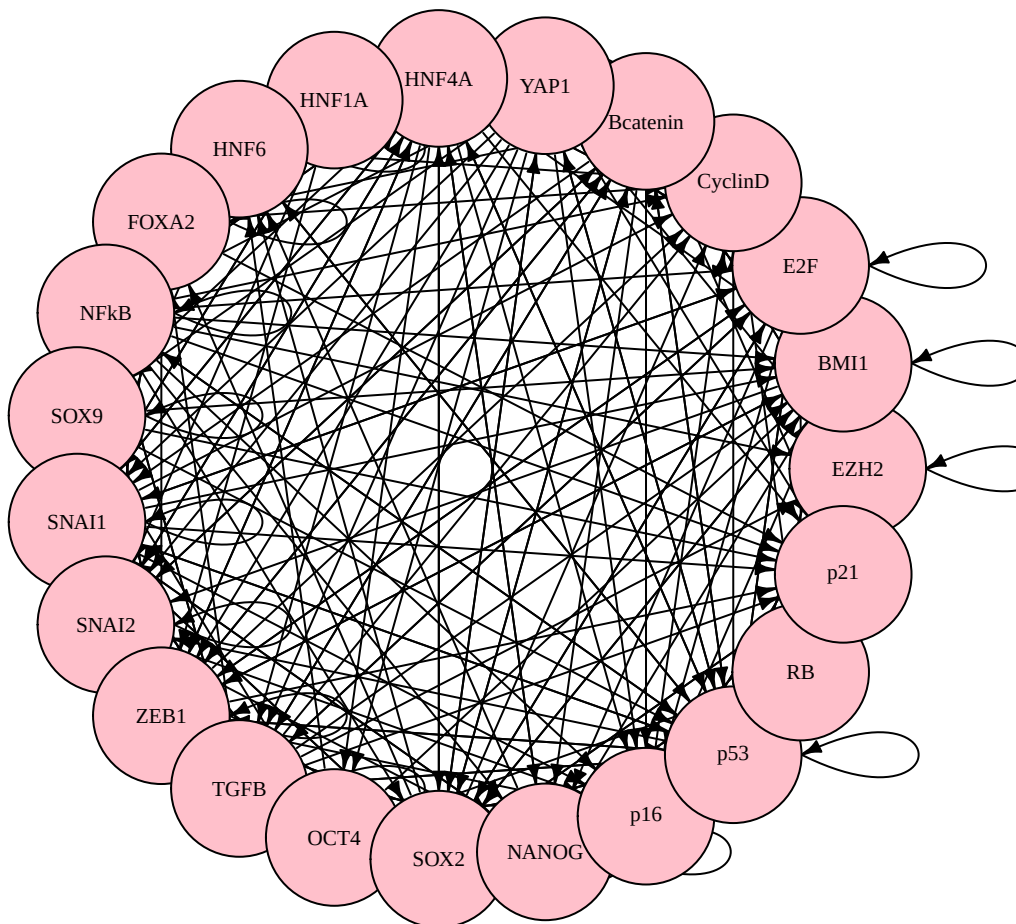
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¹Instituto de Ecología, Universidad Nacional Autónoma de México, Ciudad de México, México.

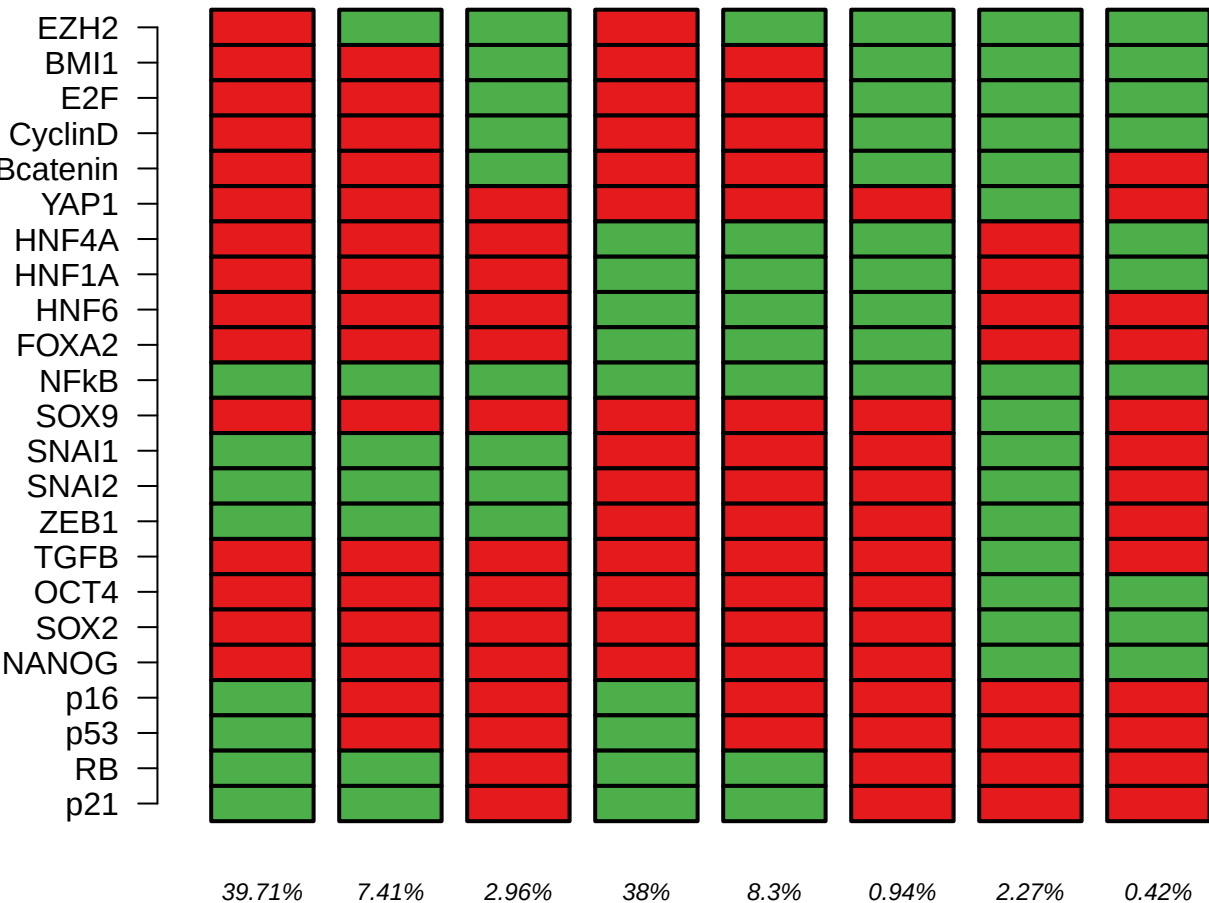
²Departamento de Control Automático, Cinvestav-IPN, Ciudad de México, México.

³Centro de Ciencias de la Complejidad (C3), Universidad Nacional Autónoma de México, Ciudad de México, México.

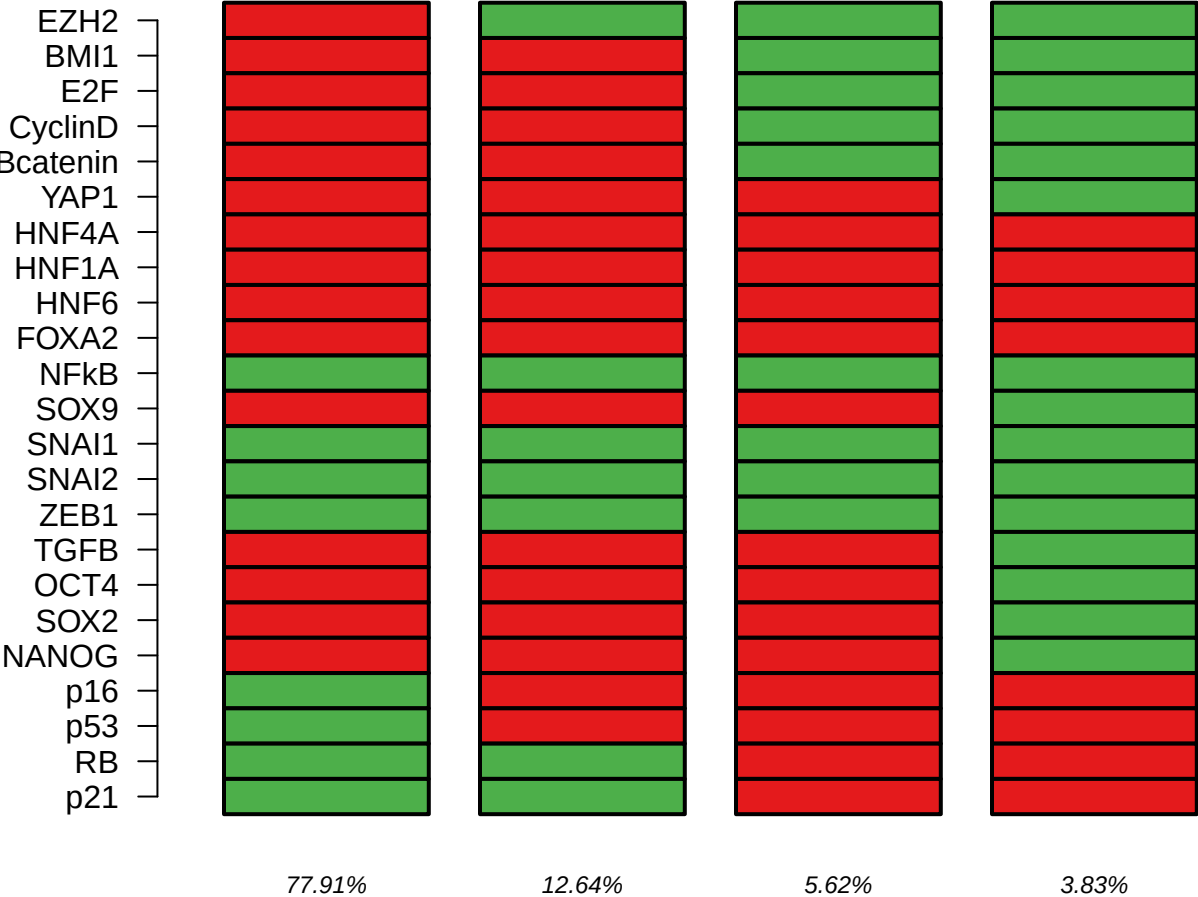
*Correspondence to: eabuylla@gmail.com



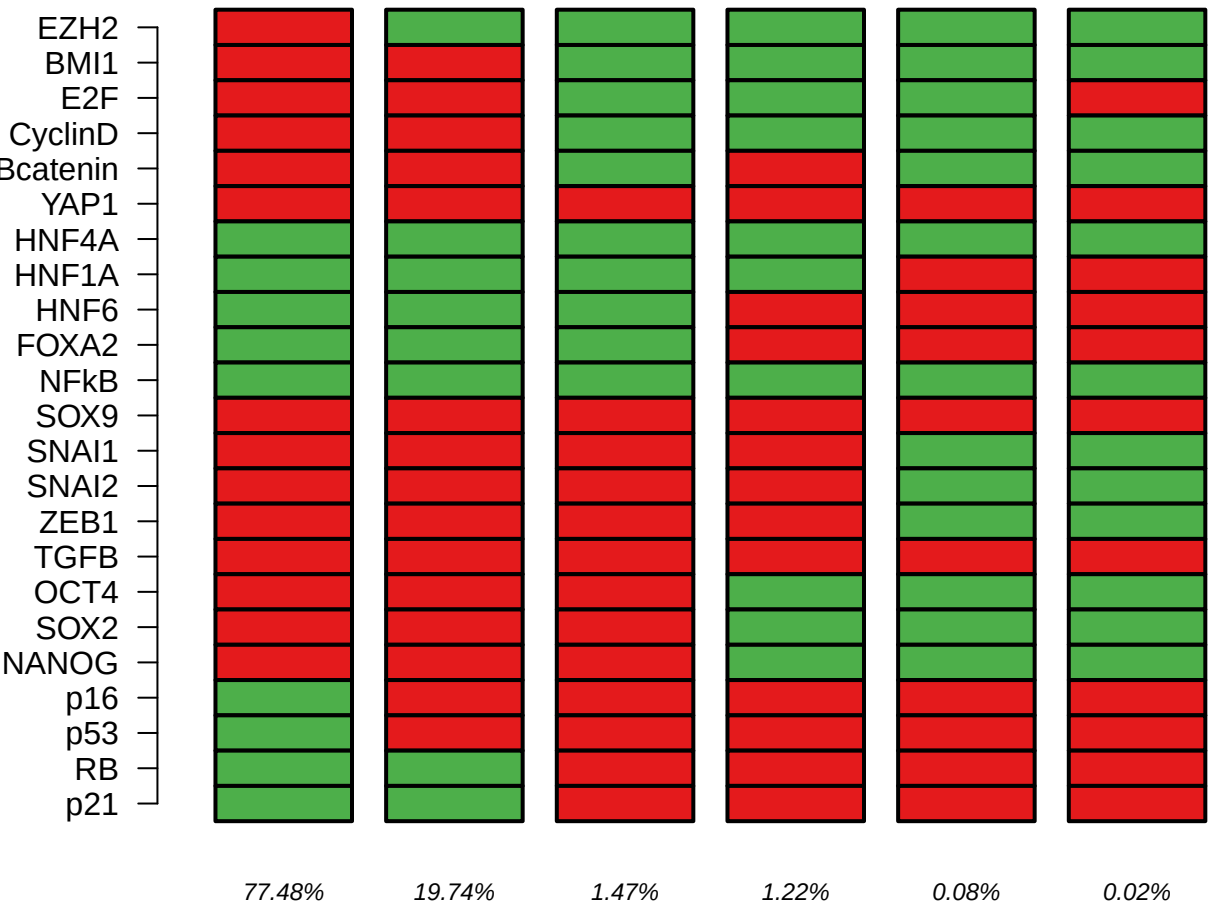
WT model
Attractors with 1 state(s)



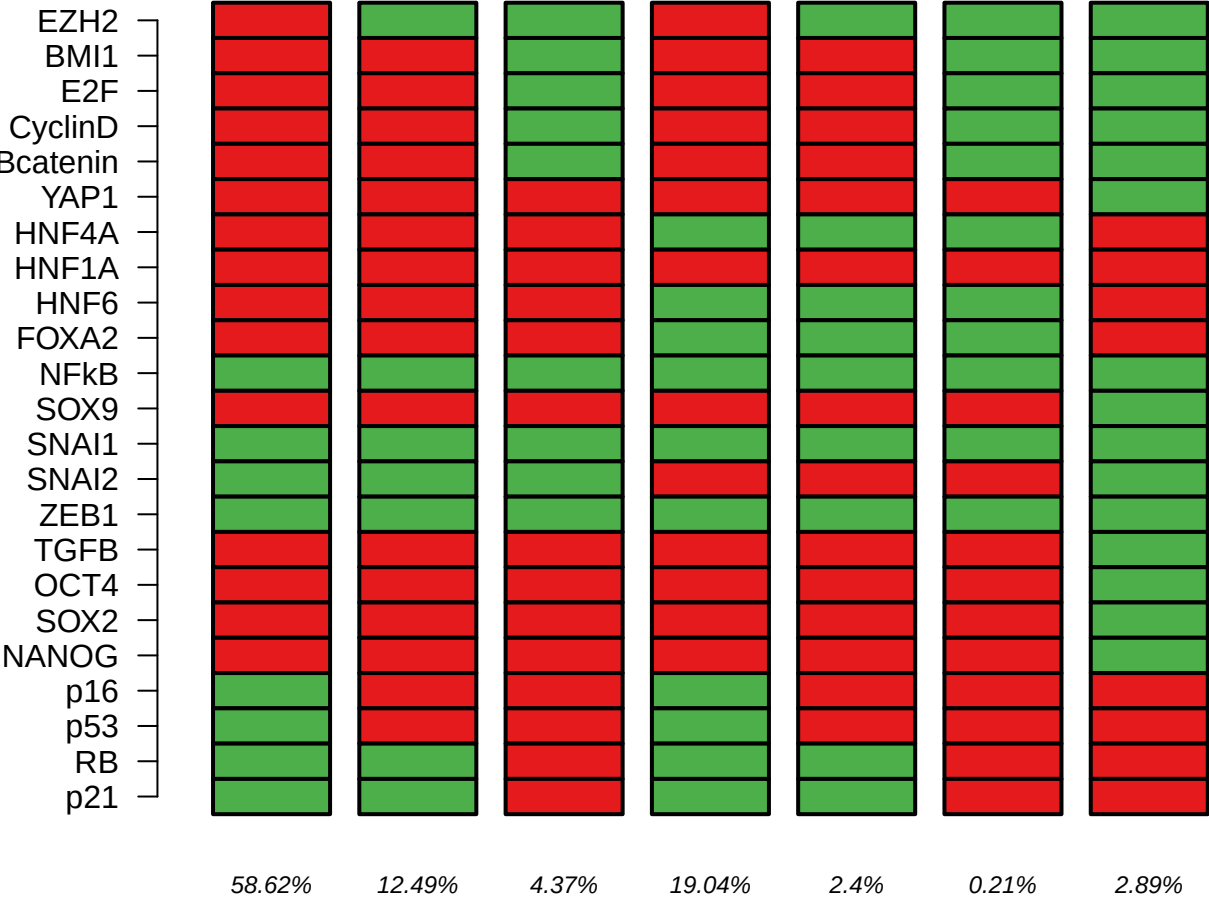
HNF4A loss of function
Attractors with 1 state(s)



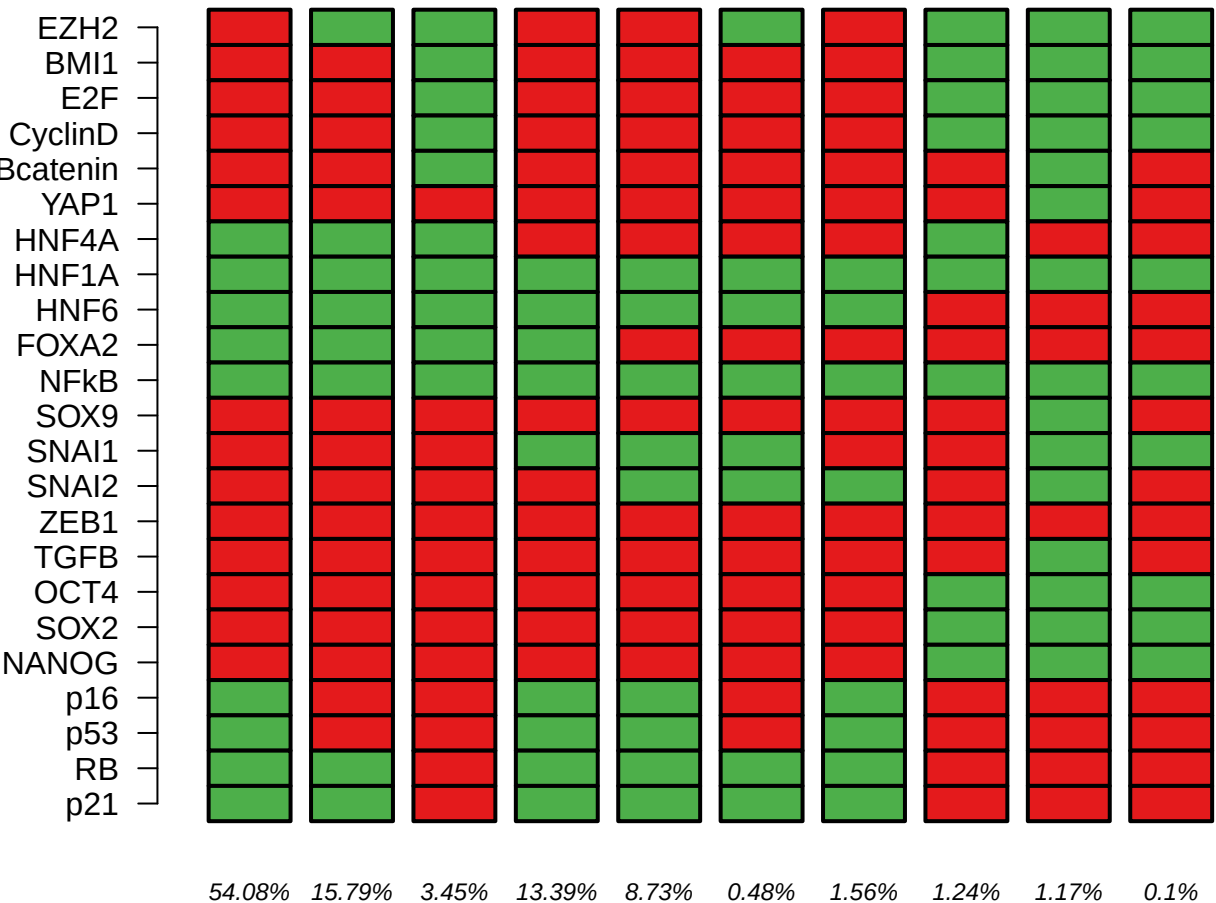
HNF4A gain of function
Attractors with 1 state(s)



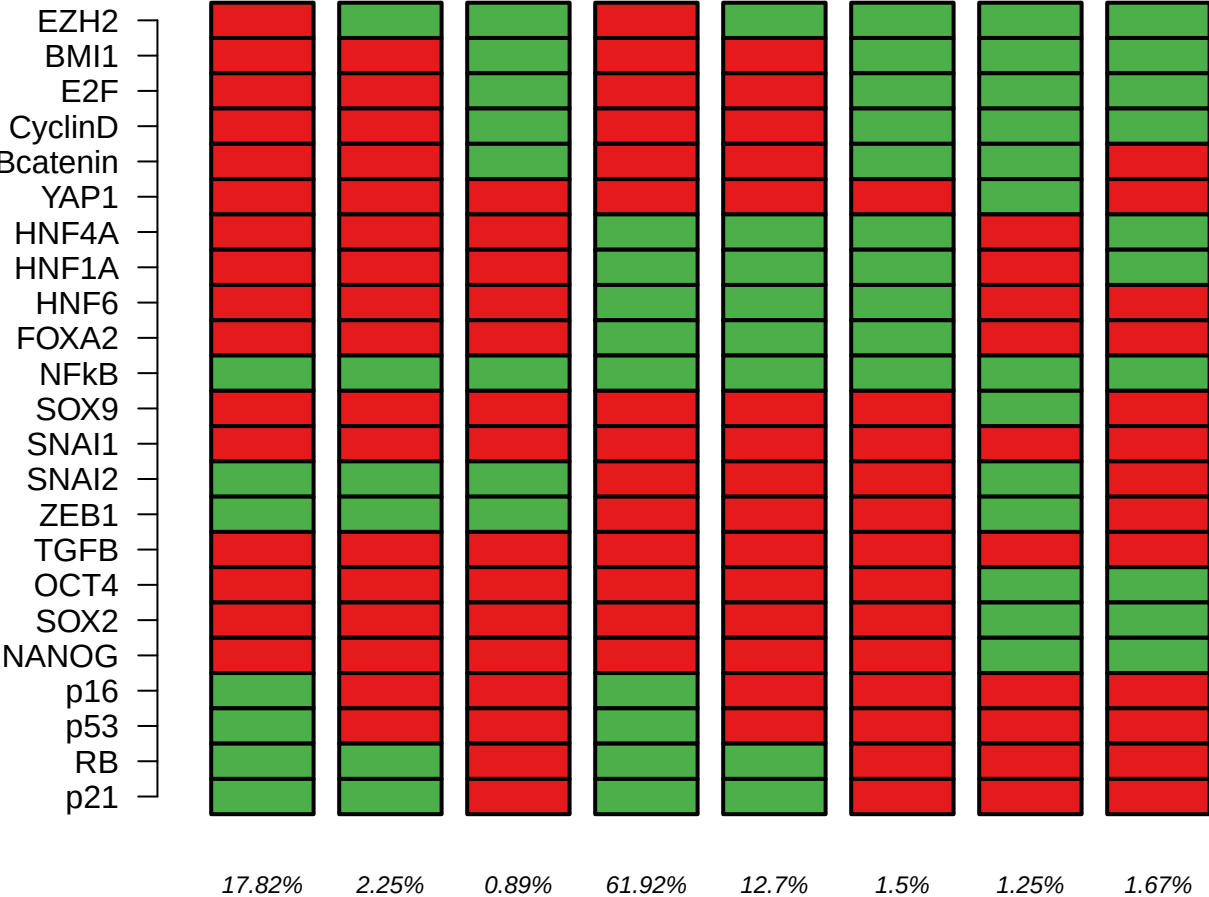
HNF1A loss of function
Attractors with 1 state(s)



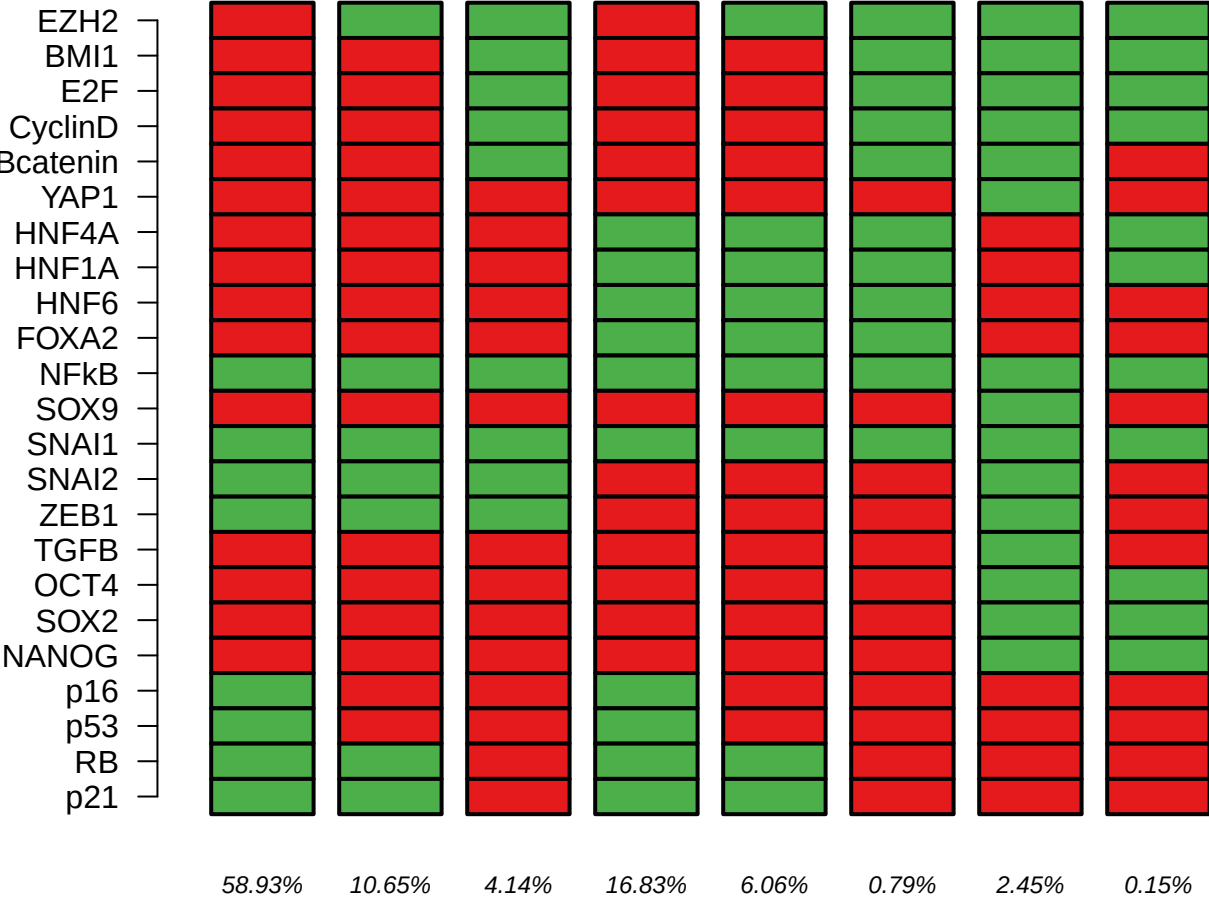
HNF1A gain of function
Attractors with 1 state(s)



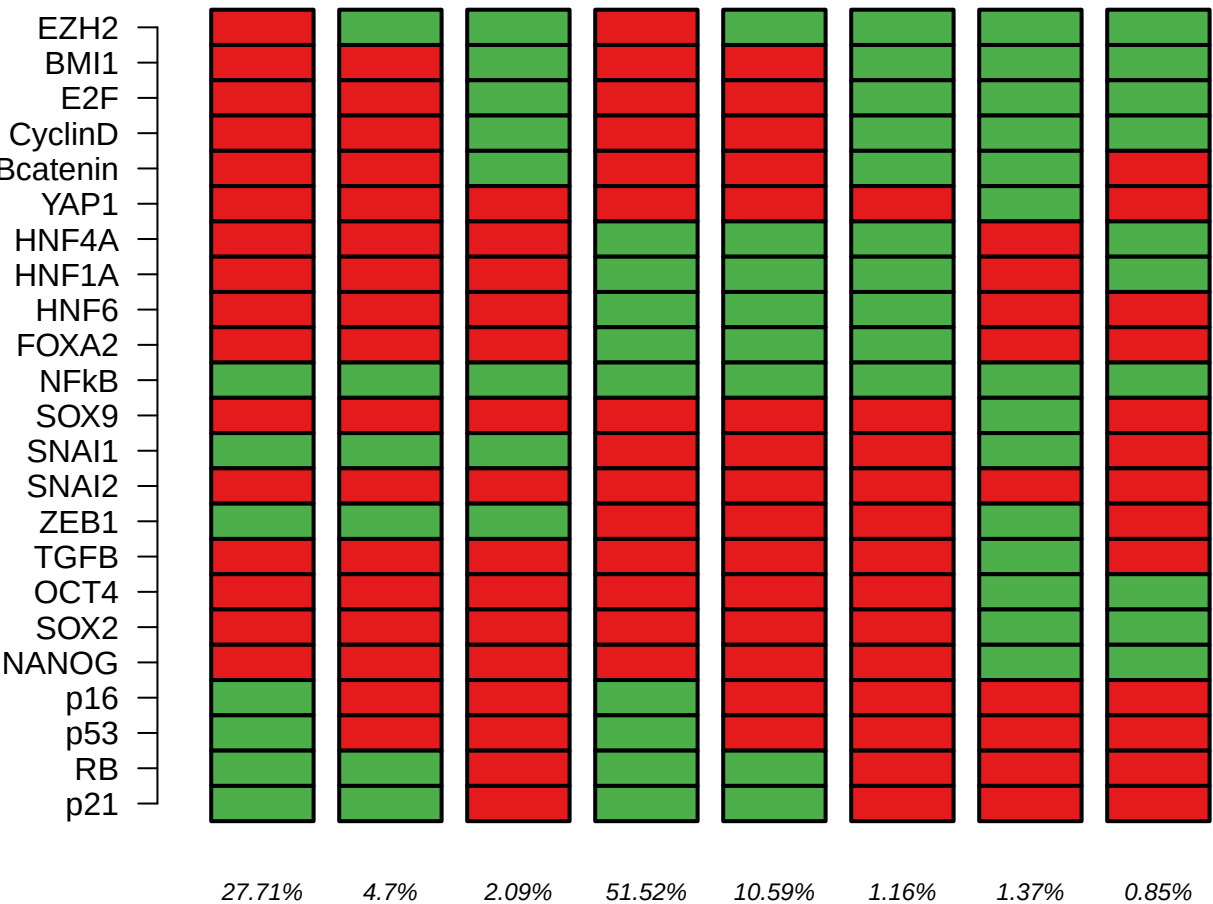
SNAI1 loss of function
Attractors with 1 state(s)



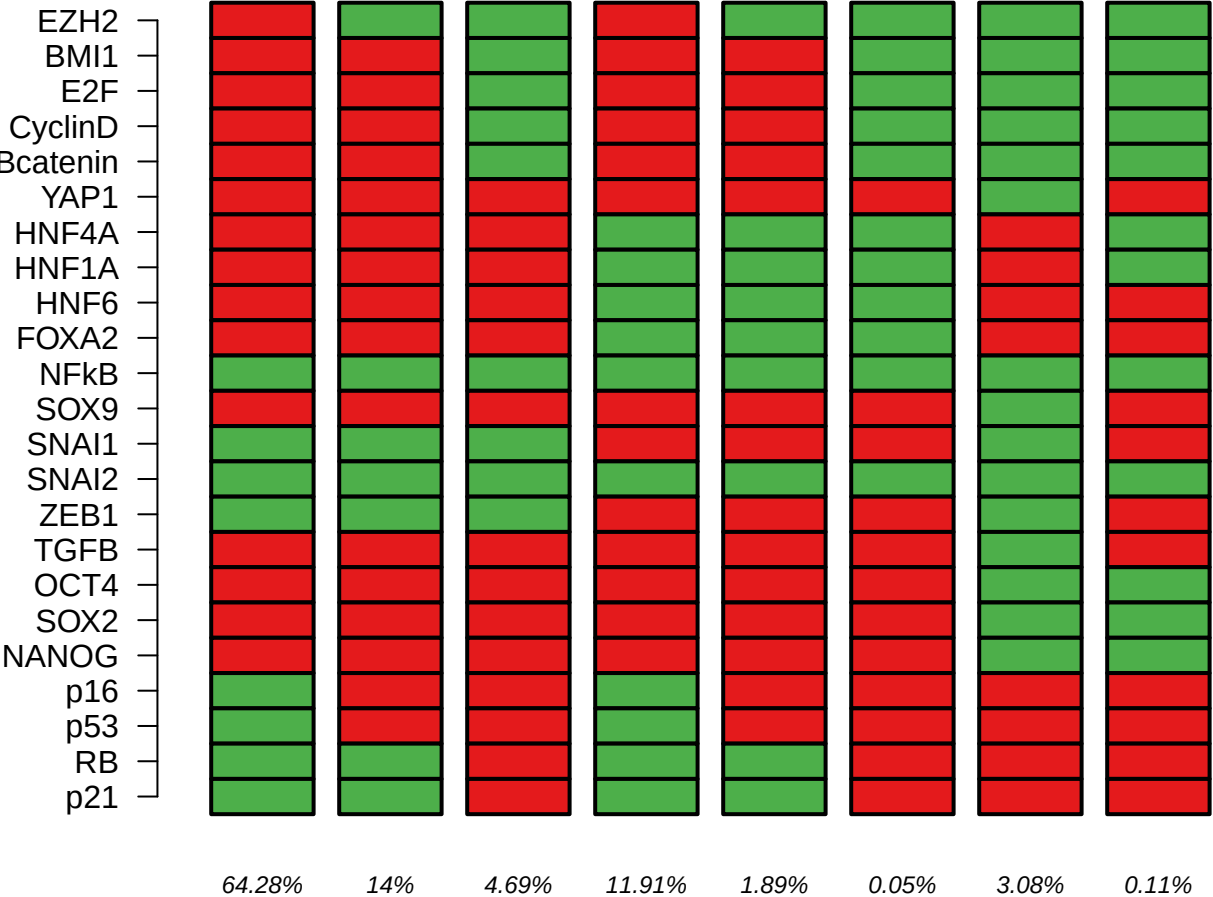
SNAI1 gain of function
Attractors with 1 state(s)



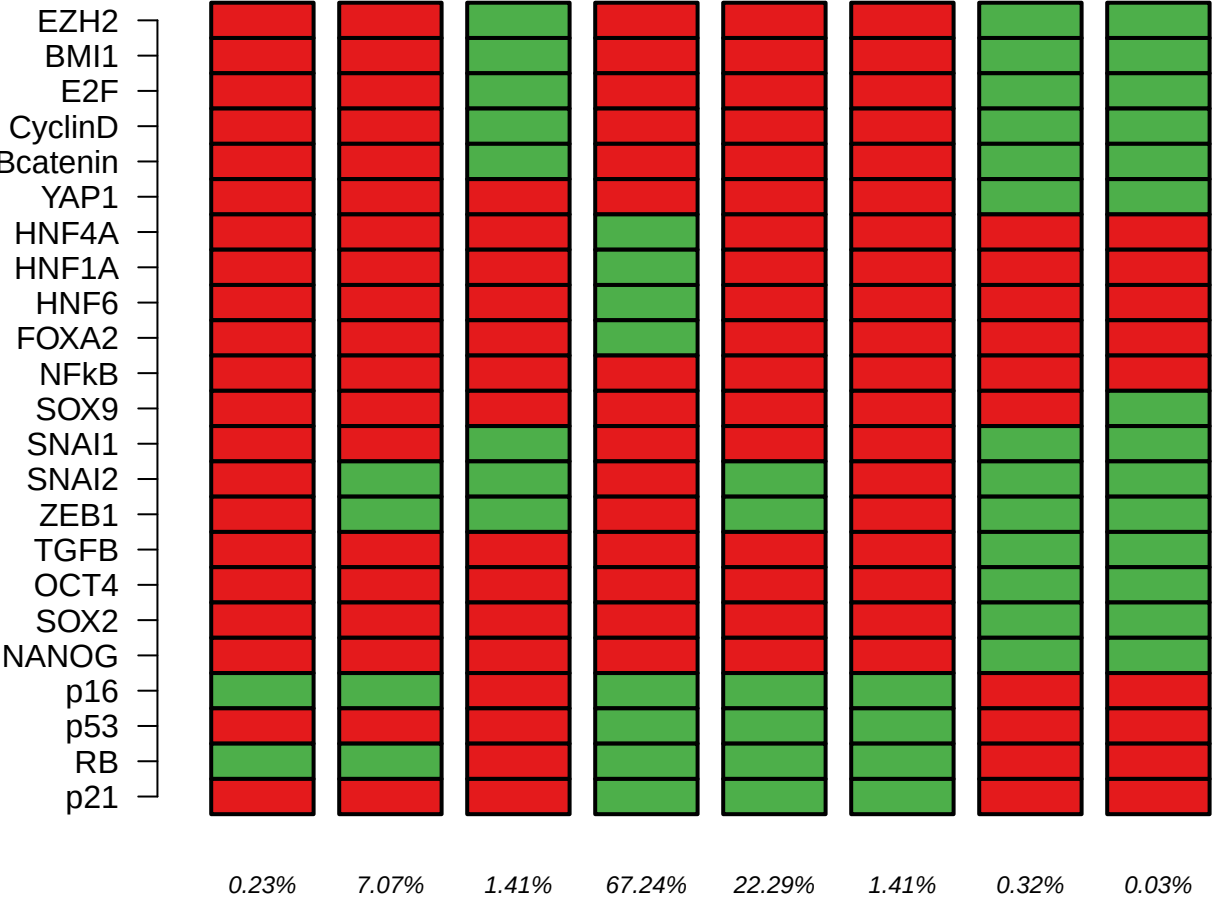
SNAI2 loss of function
Attractors with 1 state(s)



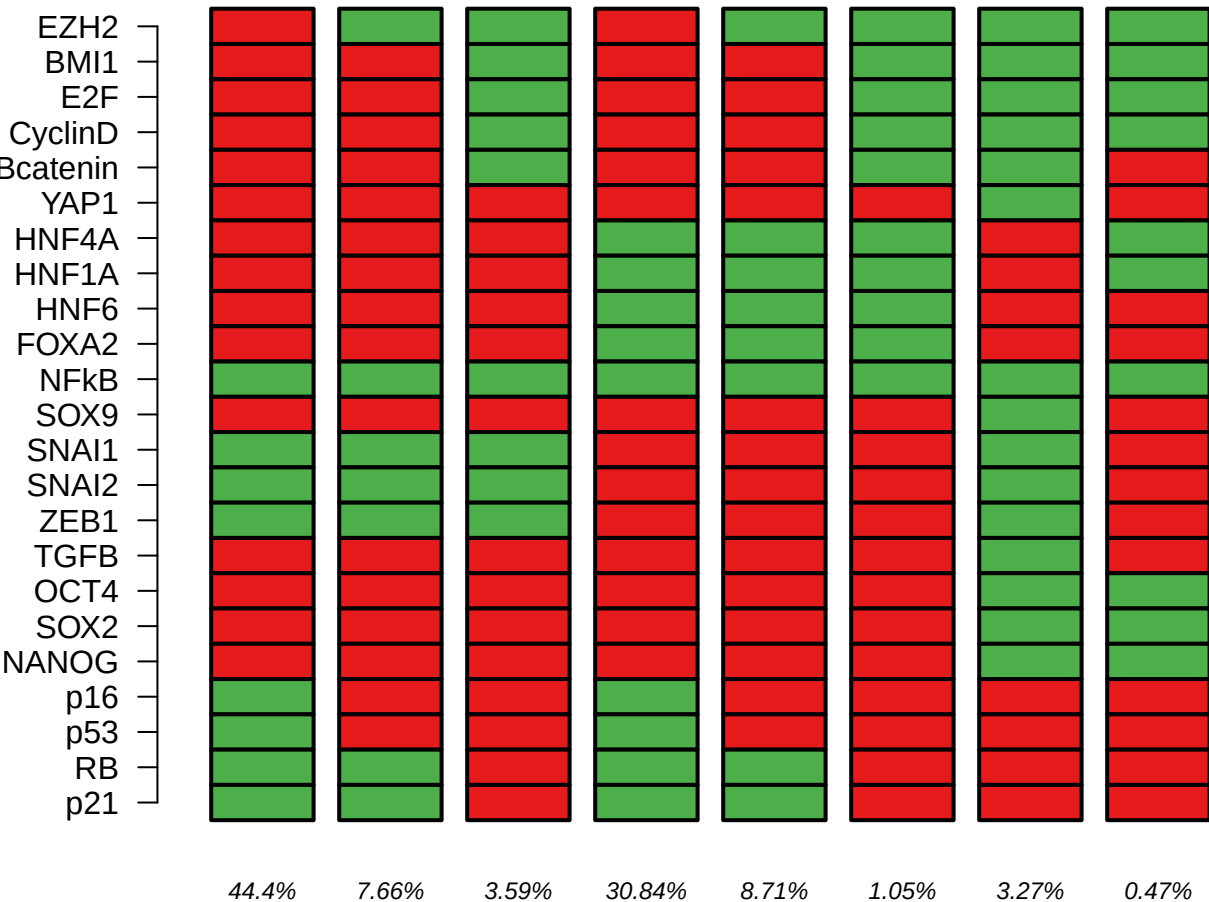
SNAI2 gain of function
Attractors with 1 state(s)



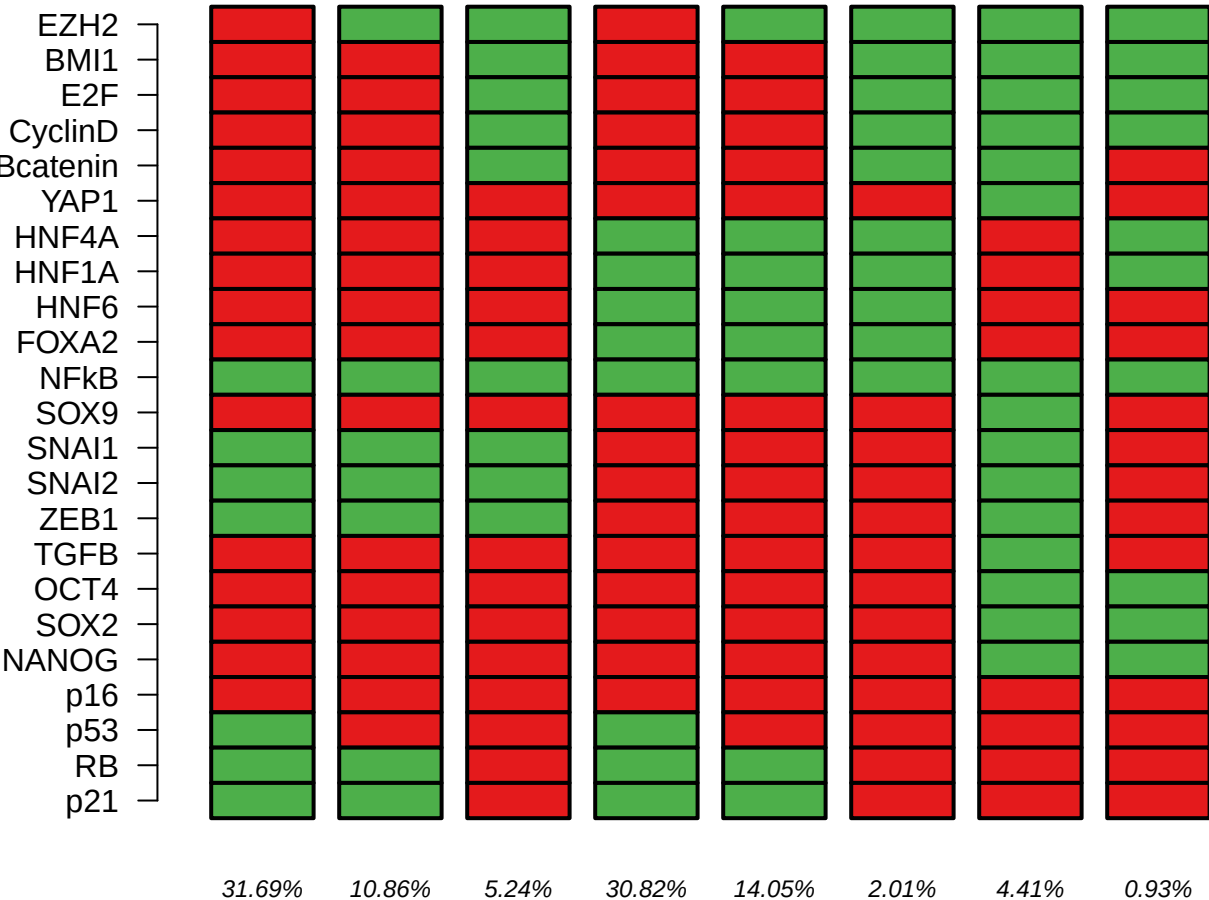
NFkB loss of function
Attractors with 1 state(s)



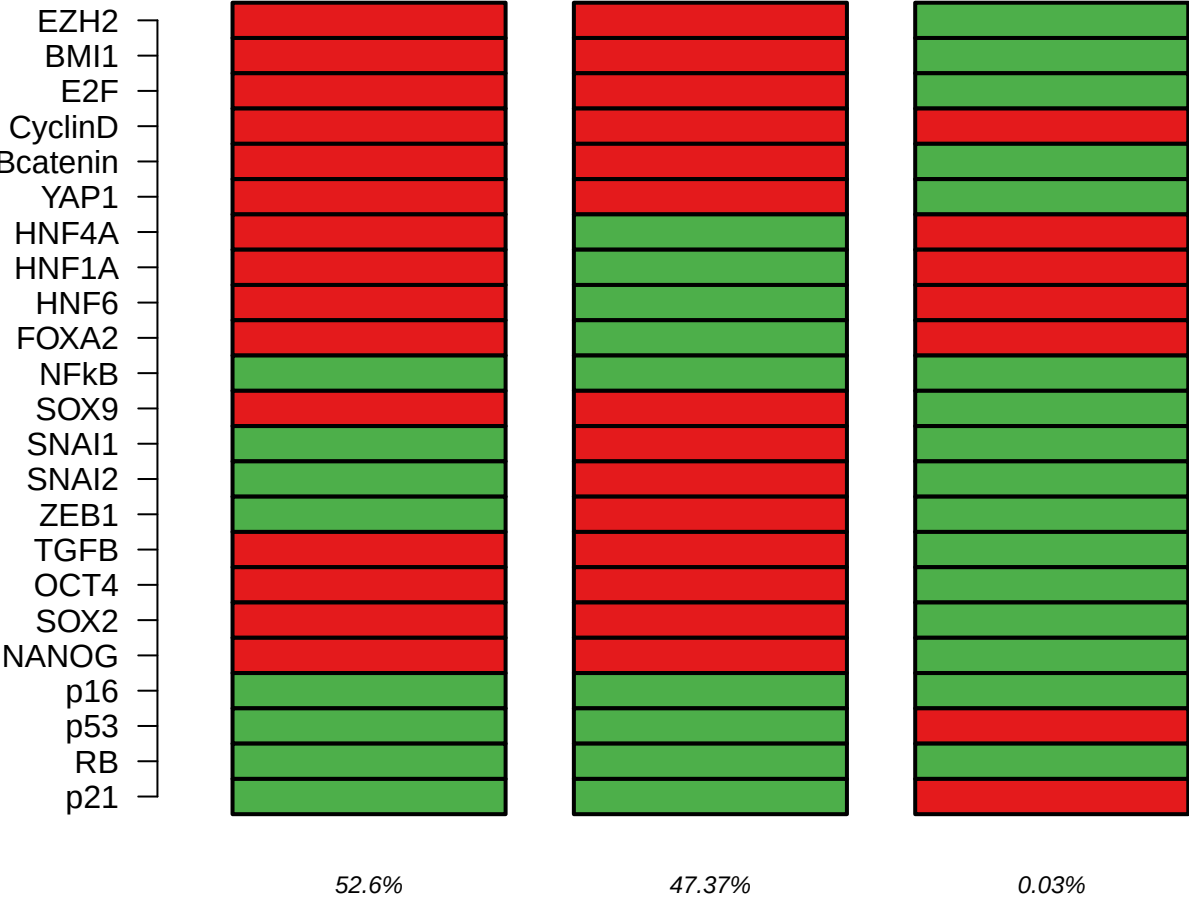
NFkB gain of function
Attractors with 1 state(s)



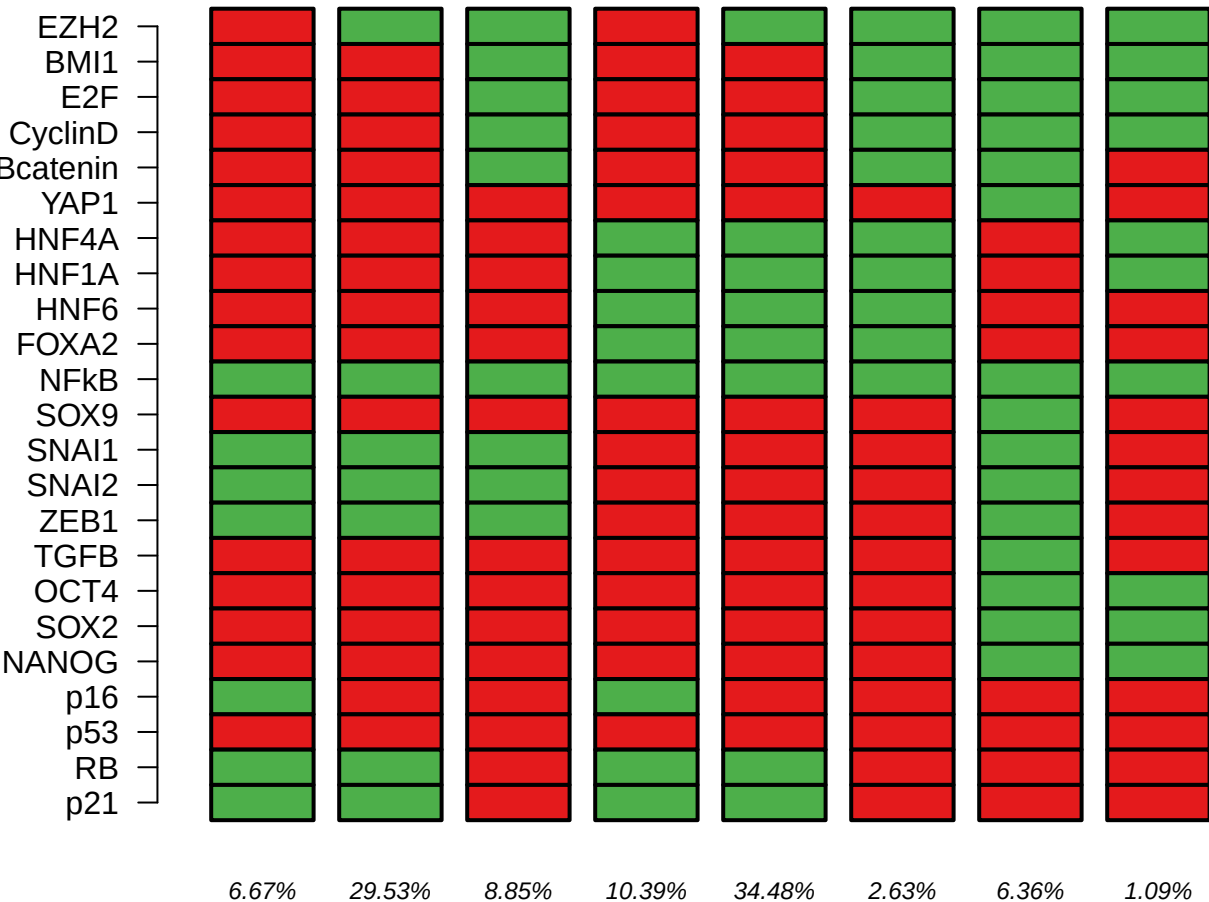
p16 loss of function
Attractors with 1 state(s)



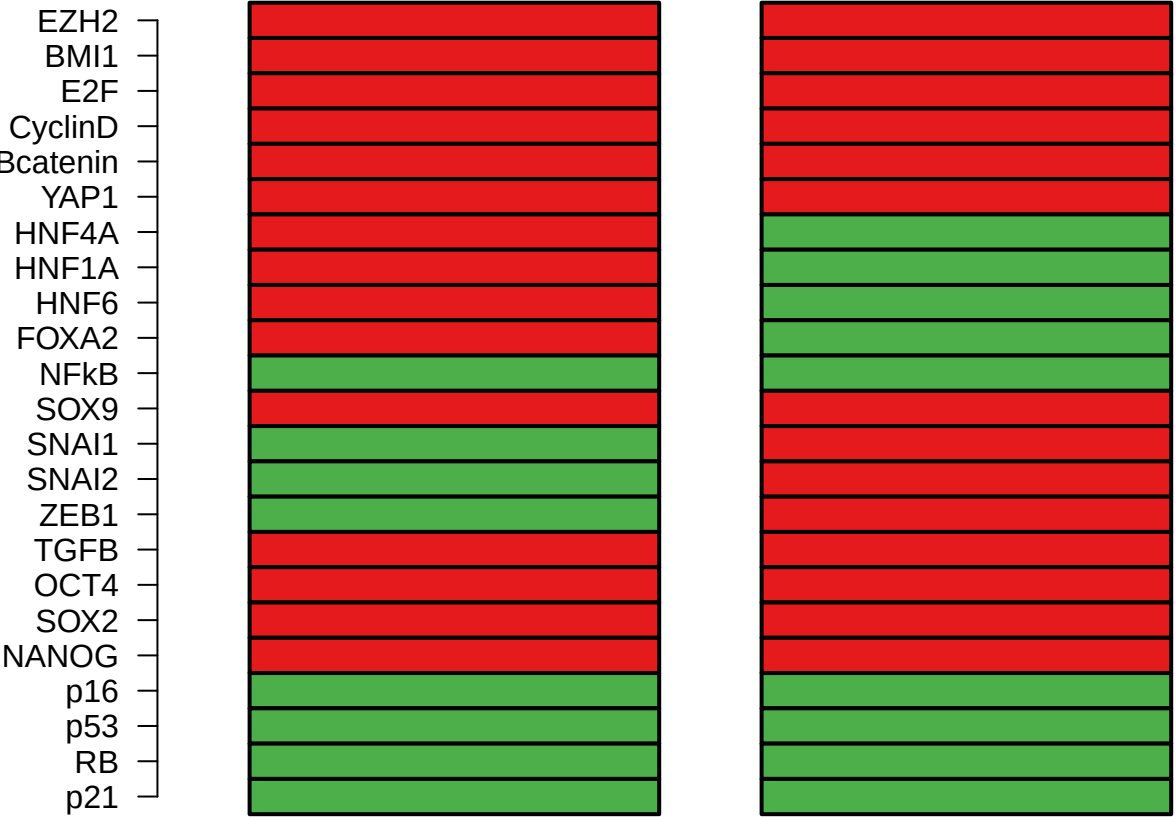
p16 gain of function
Attractors with 1 state(s)



p53 loss of function
Attractors with 1 state(s)



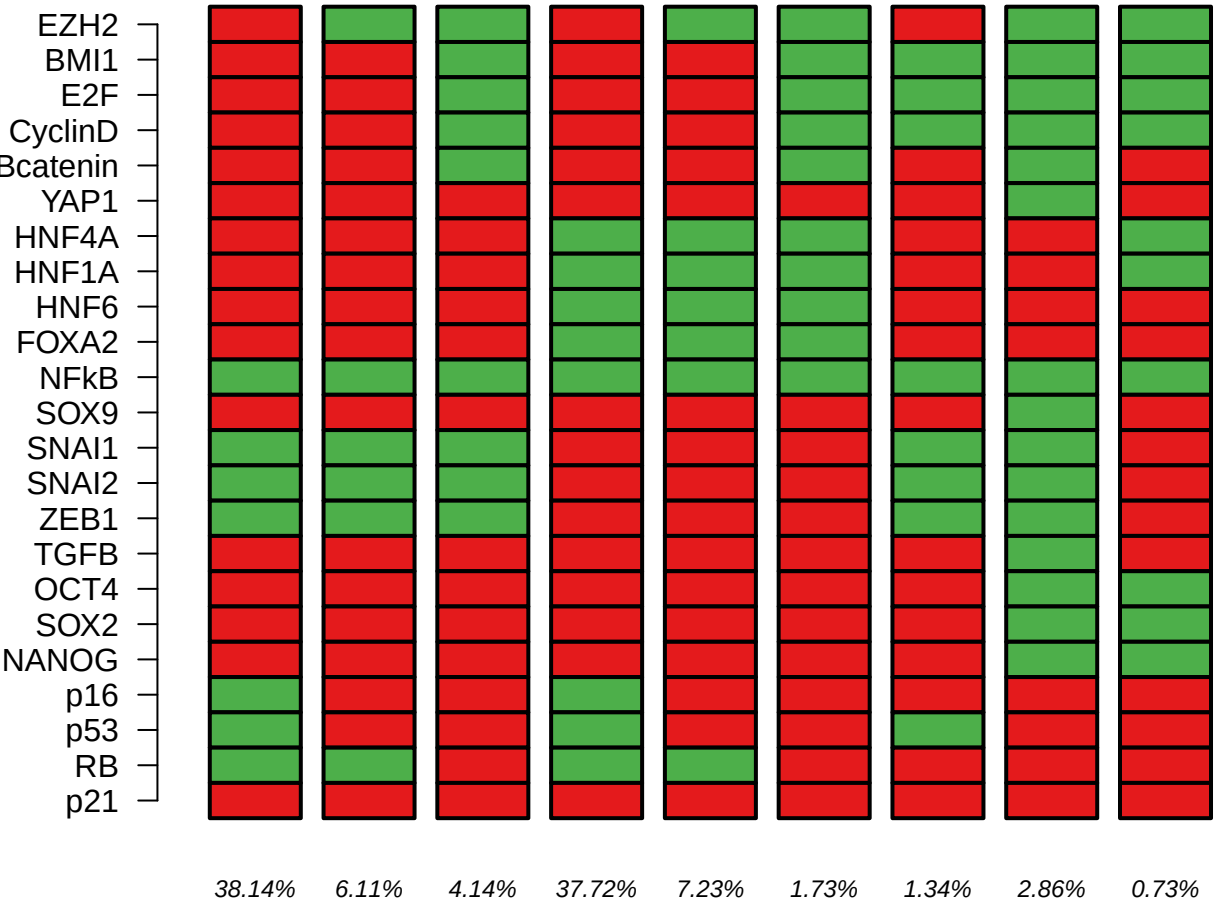
p53 gain of function
Attractors with 1 state(s)



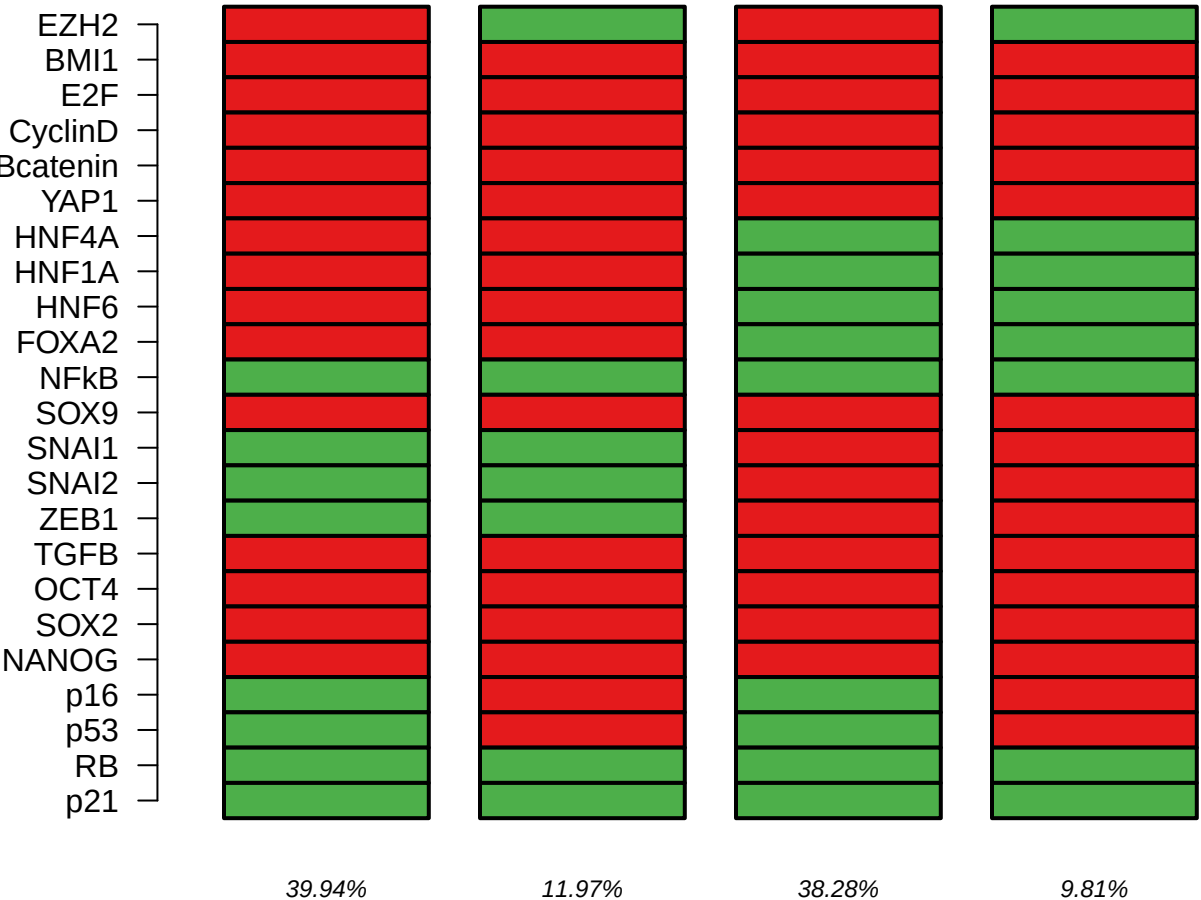
52.21%

47.79%

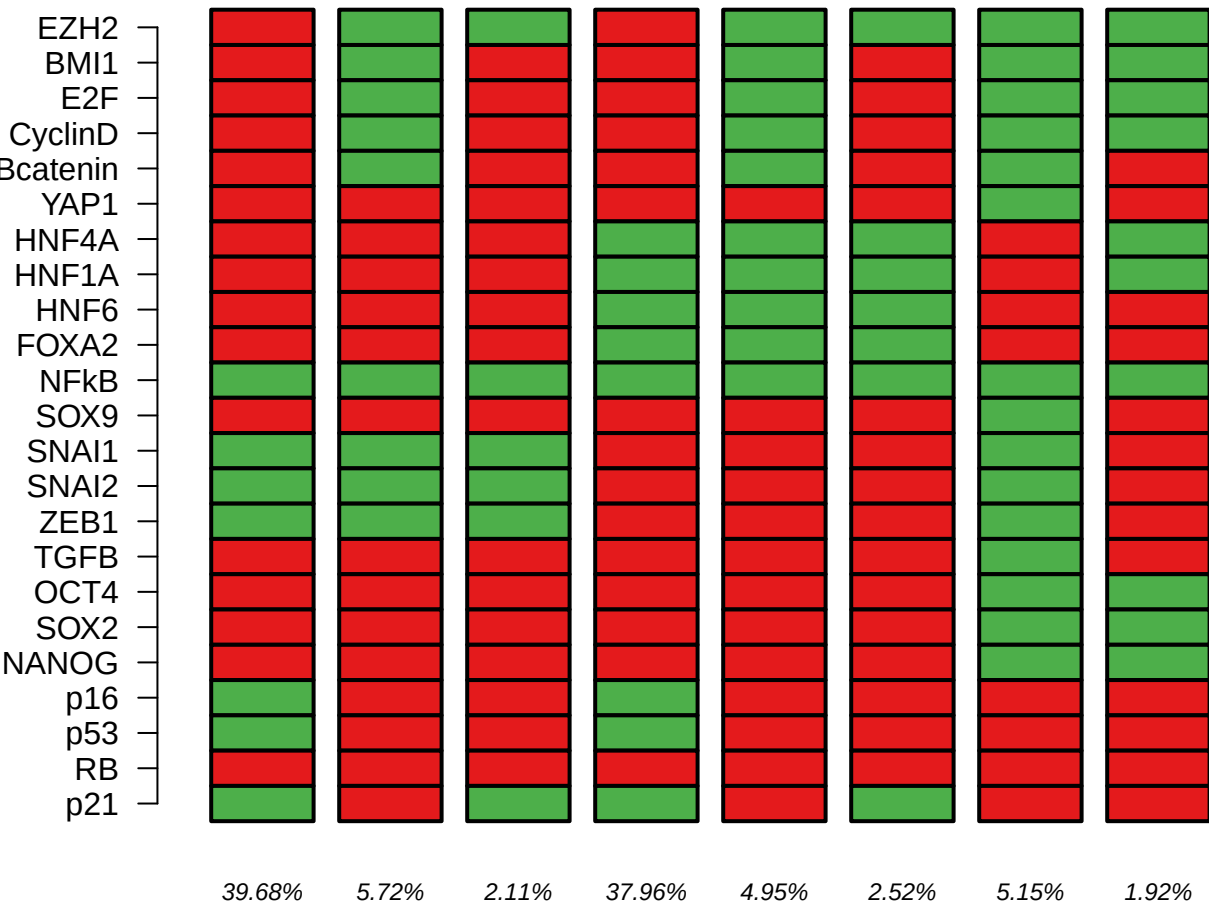
p21 loss of function
Attractors with 1 state(s)



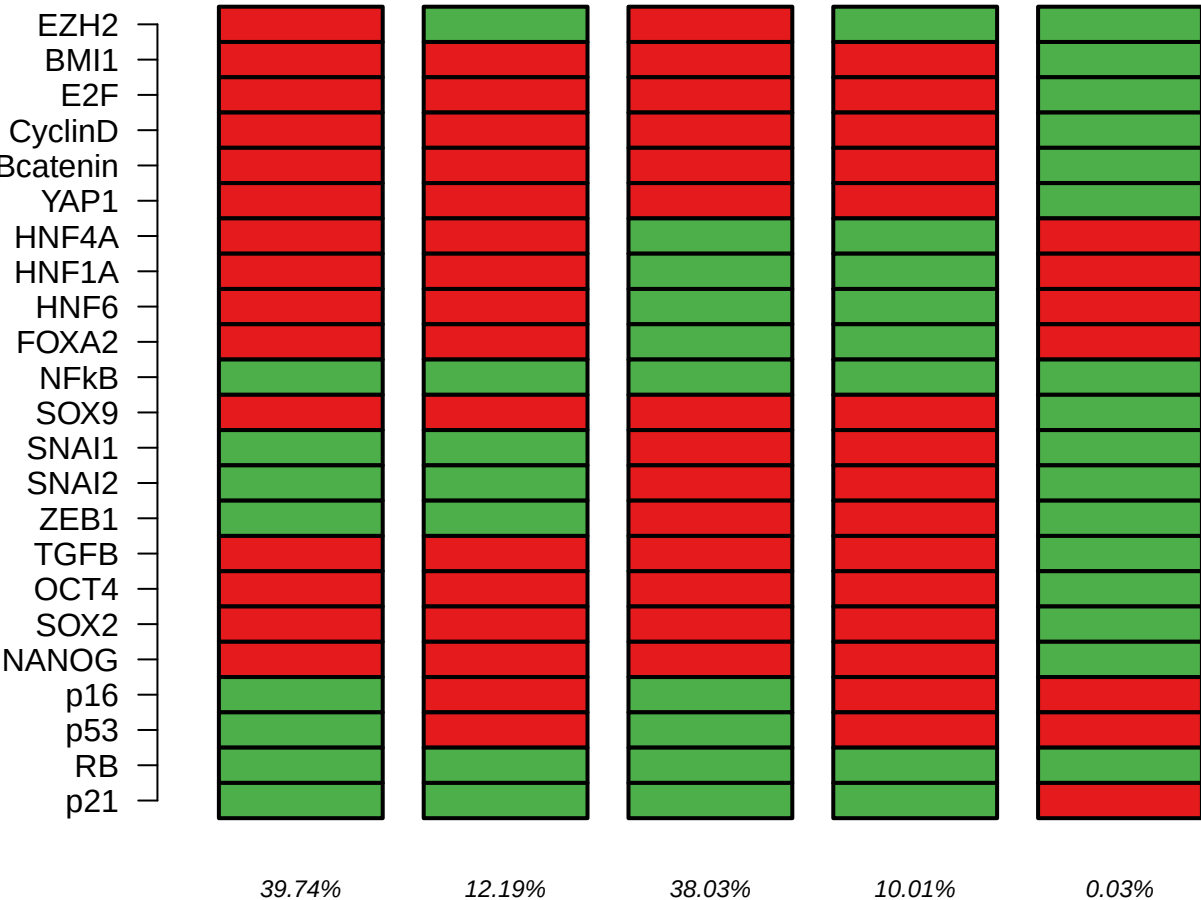
p21 gain of function
Attractors with 1 state(s)



RB loss of function
Attractors with 1 state(s)

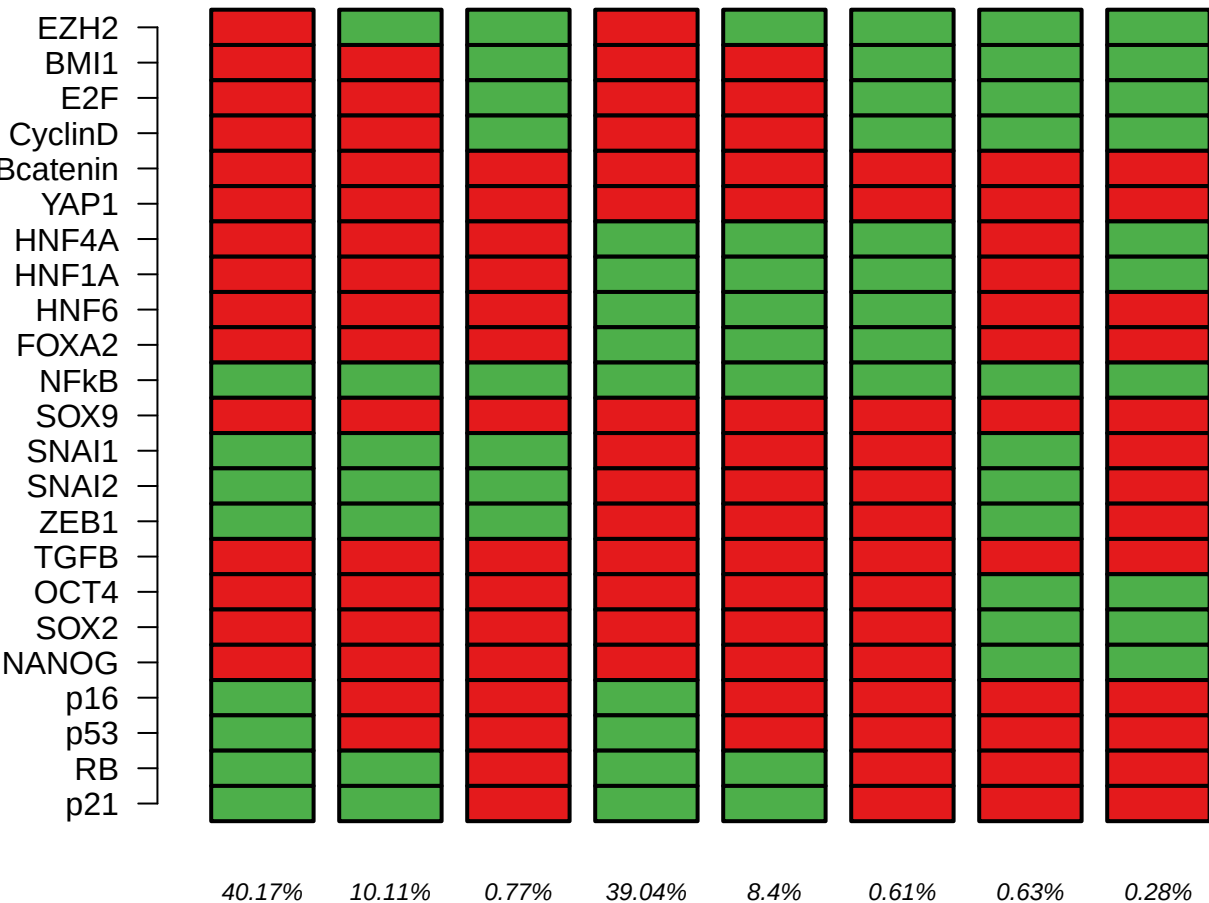


RB gain of function
Attractors with 1 state(s)

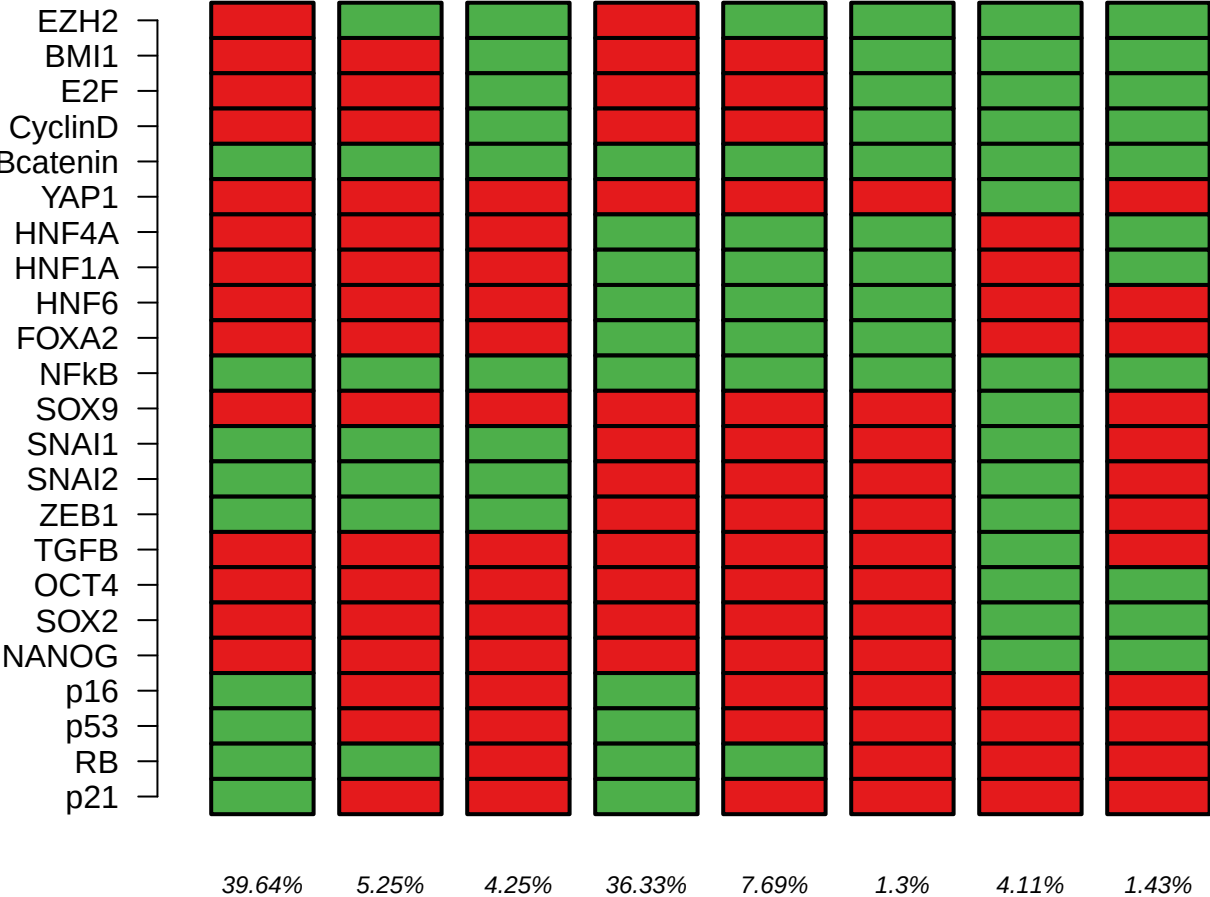


Bcatenin loss of function

Attractors with 1 state(s)

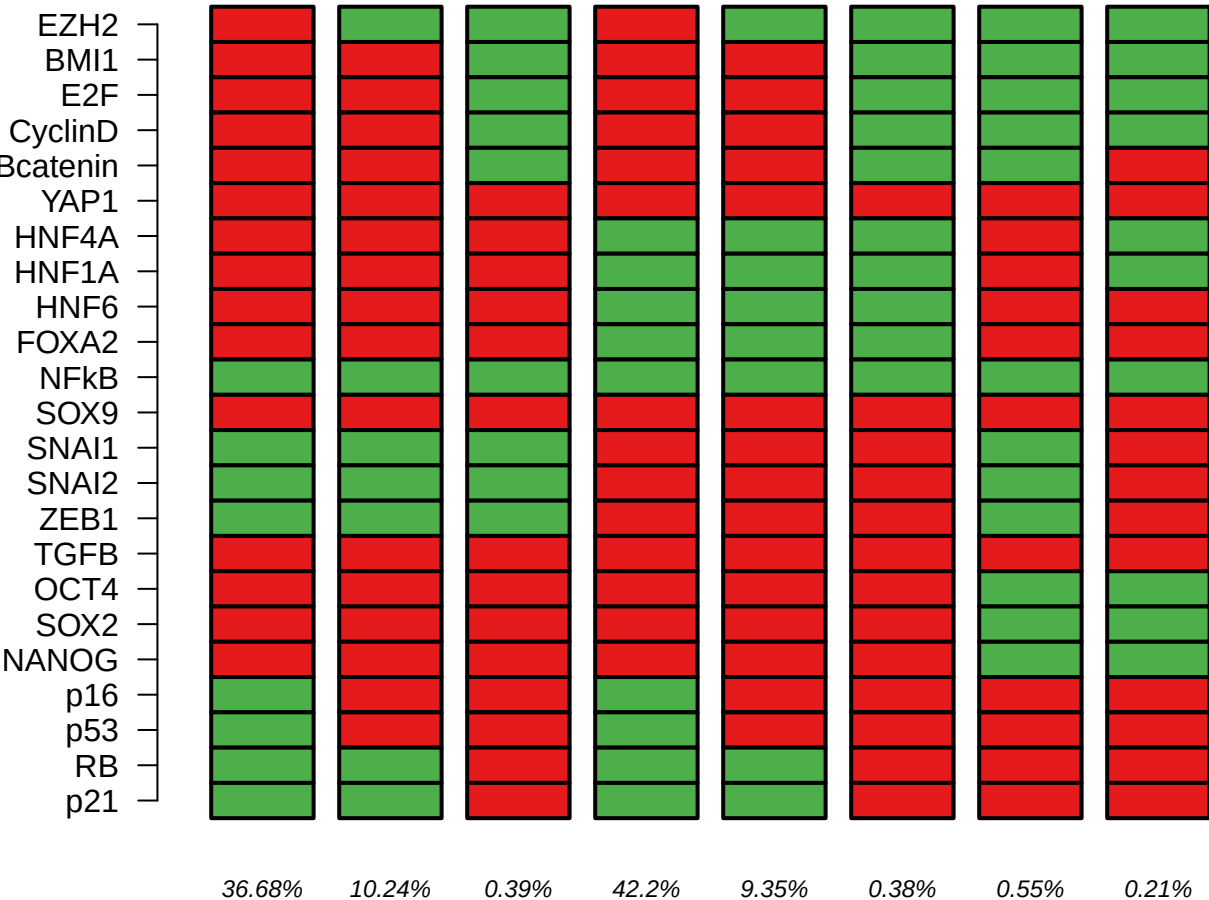


Bcatenin gain of function
Attractors with 1 state(s)



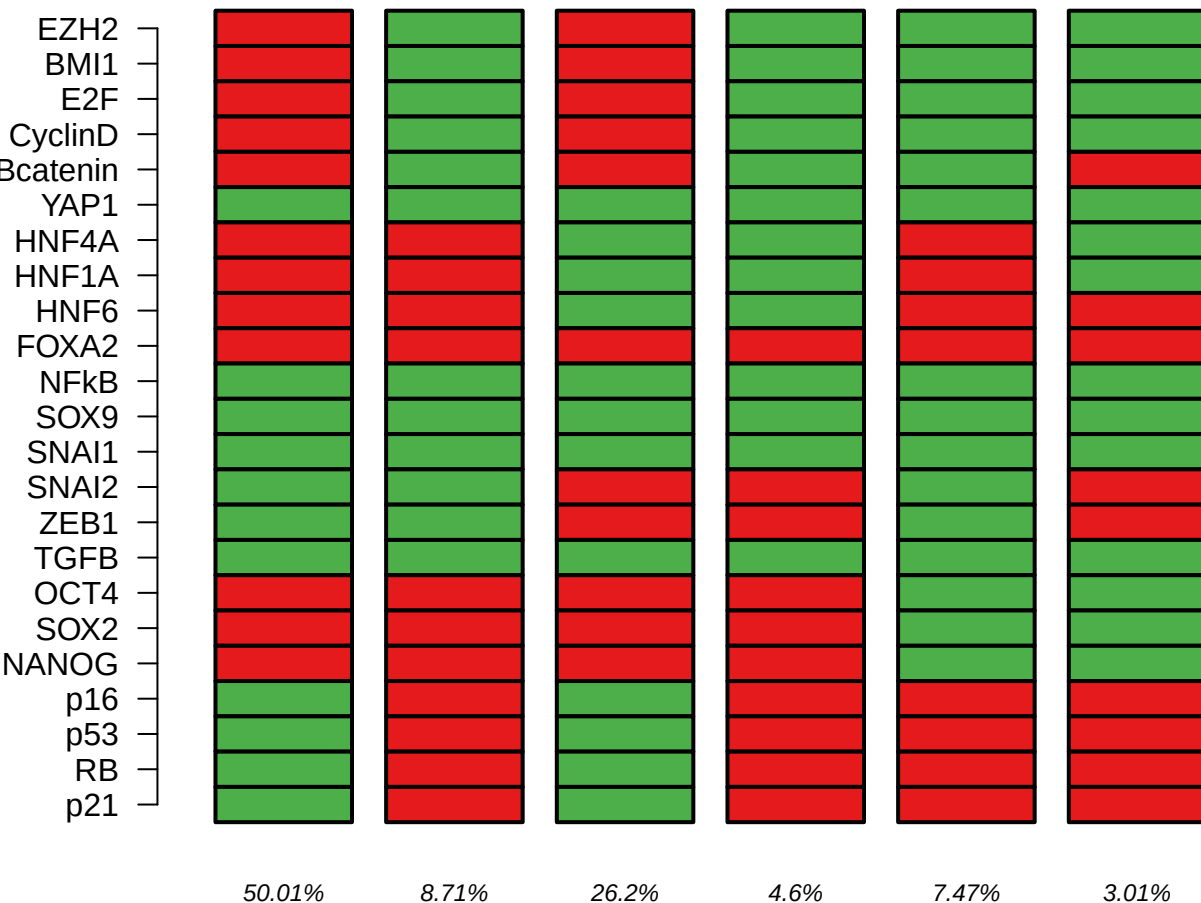
YAP1 loss of function

Attractors with 1 state(s)



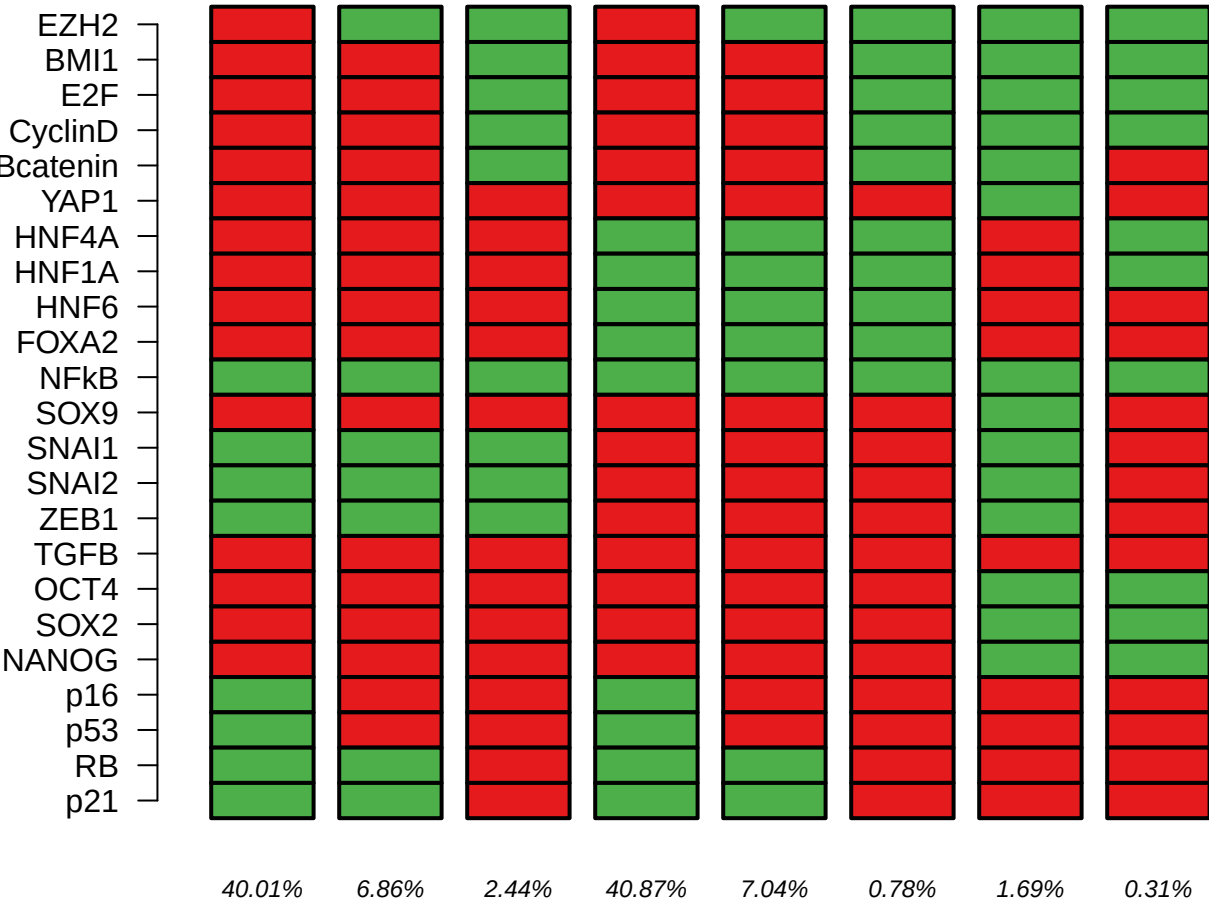
YAP1 gain of function

Attractors with 1 state(s)



TGFB loss of function

Attractors with 1 state(s)



TGFB gain of function
Attractors with 1 state(s)

