

| Stromal Genes | Cell Cycle Genes | Individual | Reference Genes |
|---------------|------------------|------------|-----------------|
| BGN | MKI67 | GADD45B | ATP5E |
| FAP | MYC | | GPX1 |
| INHBA | MYBL2 | | PGK1 |
| | | | VDAC2 |
| | | | UBB |

$$\begin{aligned}
 RS_u = & \quad 0.1263 \times \text{Stromal Group Score} \\
 & - 0.3158 \times \text{Cell Cycle Group Score} \\
 & + 0.3406 \times \text{GADD45B}
 \end{aligned}$$

where:

$$\text{Stromal Group Score} = (BGN + FAP + INHBA)/3$$

$$\text{Cell Cycle Group Score} = (MYBL2 + Ki-67 + MYC)/3$$

The RS_u (recurrence score unscaled) is then rescaled to be between 0 and 100:

$$RS = \begin{cases} 0 & \text{if } 44.16 \times (RS_u + 0.30) < 0 \\ 44.16 \times (RS_u + 0.30) & \text{if } 0 \leq 44.16 \times (RS_u + 0.30) \leq 100 \\ 100 & \text{if } 44.16 \times (RS_u + 0.30) > 100 \end{cases}$$