

## Supplementary Material

**Supplemental Table S1: Gene senescence's list**

|         |         |          |
|---------|---------|----------|
| Abl1    | Egr1    | Pik3ca   |
| Akt1    | Ets1    | Plau     |
| Aldh1a3 | Ets2    | Prkcd    |
| Atm     | Fn1     | Pten     |
| Bmi1    | Gadd45a | Rb1      |
| Calr    | Glb1    | Rbl1     |
| Ccna2   | Gsk3b   | Rbl2     |
| Ccnb1   | Hras1   | Serpina2 |
| Ccnd1   | Id1     | Serpine1 |
| Ccne1   | Ifng    | Sirt1    |
| Cd44    | Igf1    | Sod1     |
| Cdc25c  | Igf1r   | Sod2     |
| Cdk2    | Igfbp3  | Sparc    |
| Cdk4    | Igfbp5  | Tbx2     |
| Cdk6    | Igfbp7  | Tbx3     |
| Cdkn1a  | Ing1    | Terf2    |
| Cdkn1b  | Irf3    | Tert     |
| Cdkn1c  | Irf5    | Tgfb1    |
| Cdkn2a  | Irf7    | Tgfb1i1  |
| Cdkn2b  | Map2k1  | Thbs1    |
| Cdkn2c  | Map2k3  | Trp53    |
| Cdkn2d  | Map2k6  | Trp53bp1 |
| Chek1   | Mapk14  | Twist1   |
| Chek2   | Mdm2    | Vim      |
| Cited2  | Morc3   | Actb     |
| Col1a1  | Myc     | B2m      |
| Col3a1  | Nbn     | Gapdh    |
| Creg1   | Nfkb1   | Gusb     |
| E2f1    | Nox4    | Hsp90ab1 |
| E2f3    | Pcna    |          |