

# Supplementary Figures

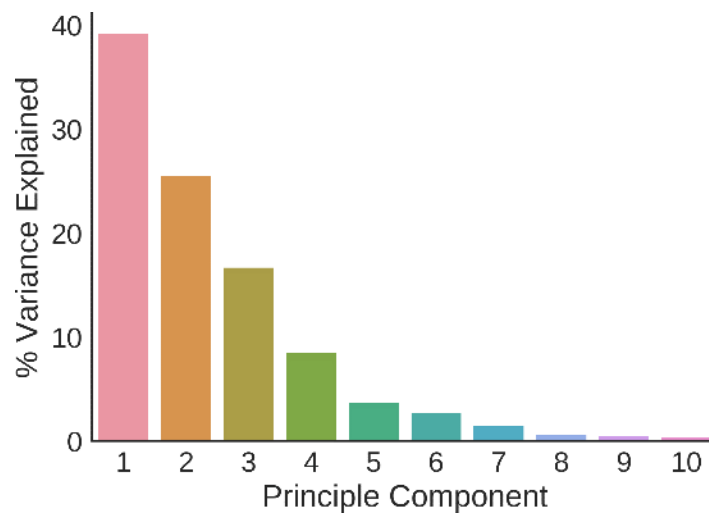


Figure S1 | Plot showing the percent of variance explained for the first 10 principal components.

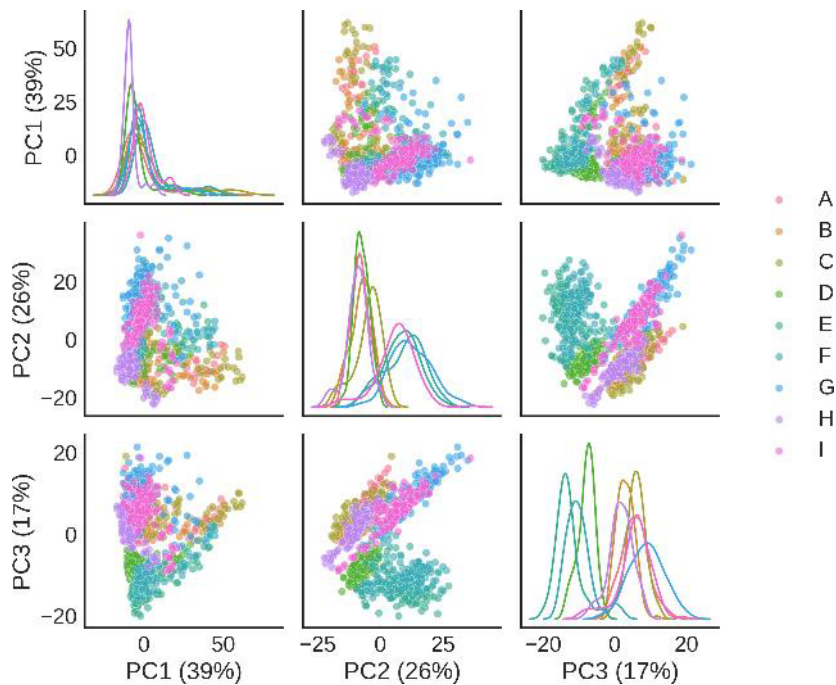


Figure S2 | Scatter matrix of first three principle components coloured by cell id.

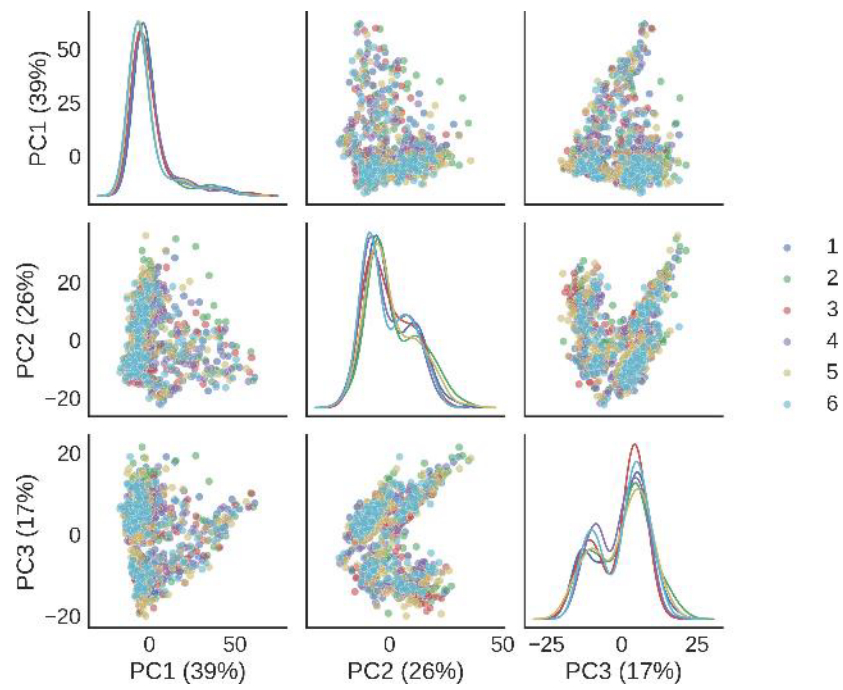


Figure S3 | Scatter matrix of first three principle components coloured by replicate.

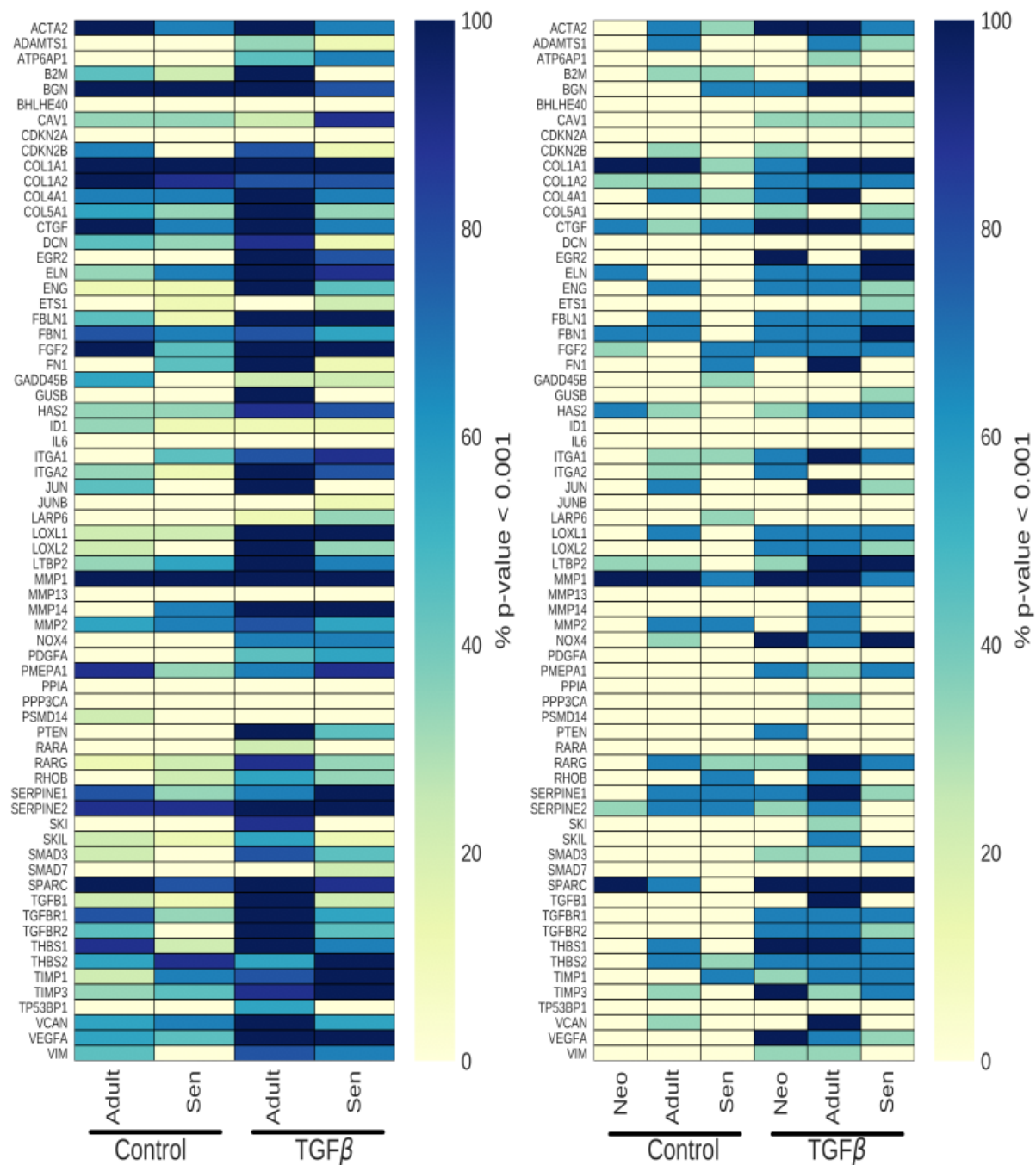


Figure S4 | Differential expression analysis for (a) between groups comparisons and (b) within groups comparisons. Colours indicate the percentage of the time of all combinations (9 for between groups and 3 for within groups) of LIMMA analysis conducted that a time series was differentially expressed with a FDR corrected  $p$ -value  $< 0.001$ .

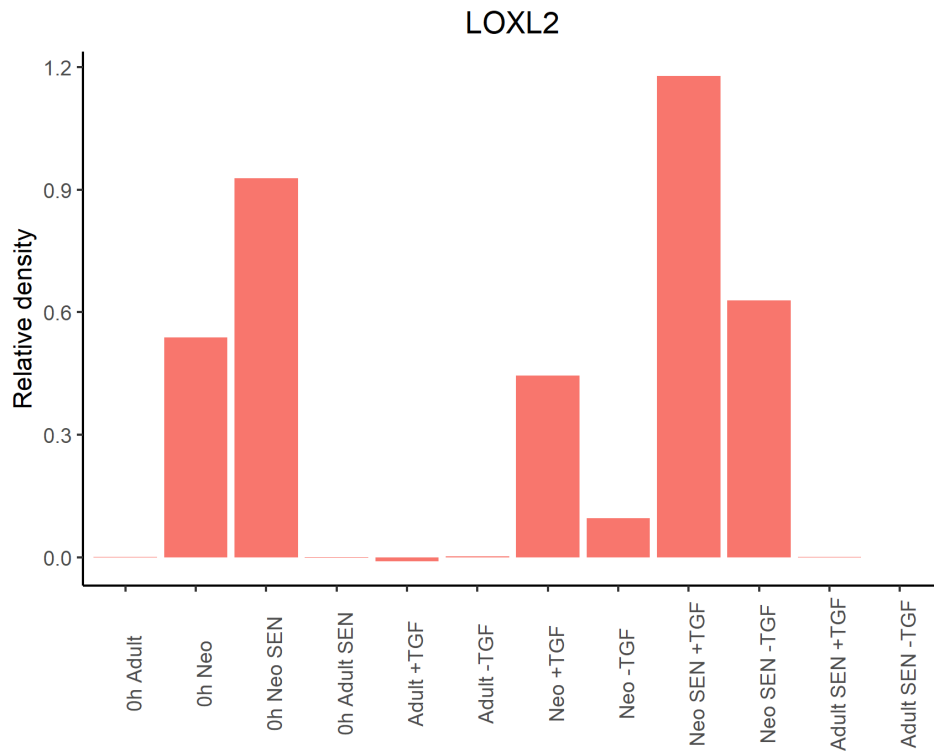


Figure S5 |Densitometry for  $\alpha$ SMA and TAGLN for blots found in Figure 2.

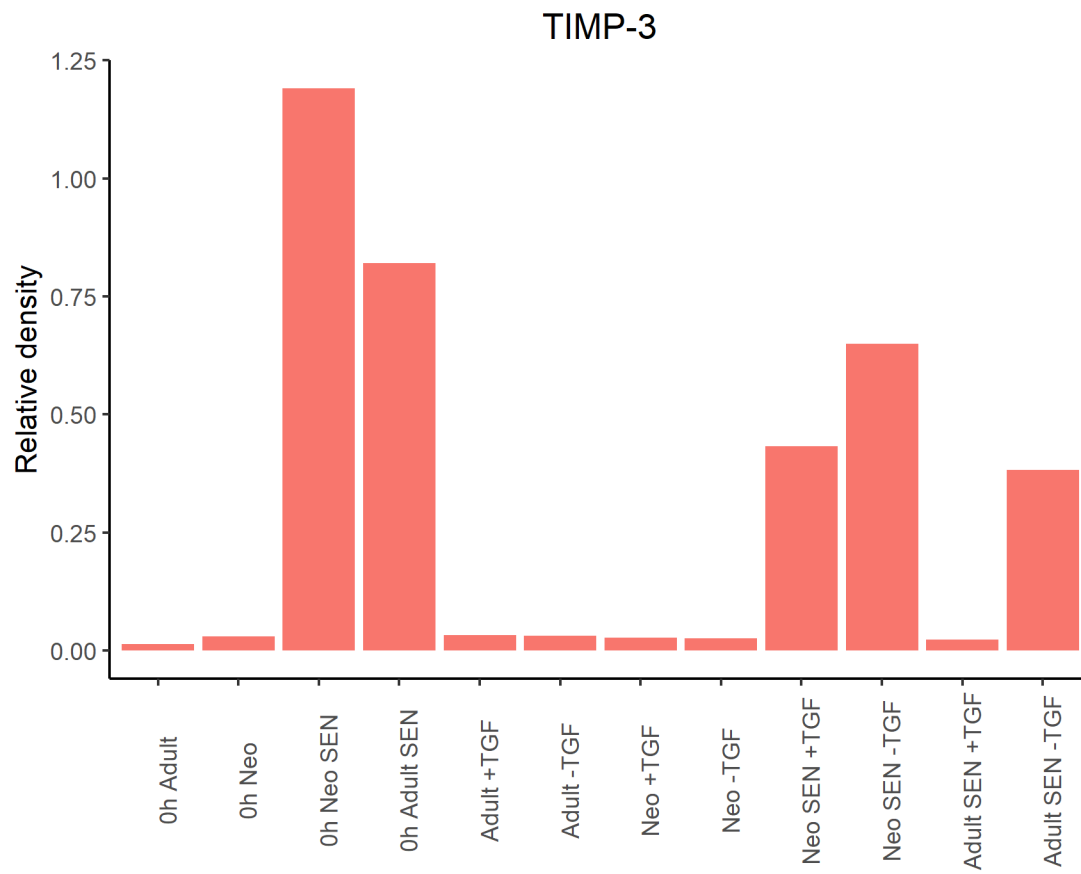


Figure S6 |Densitometry for TIMP3 for blots found in Figure 3.

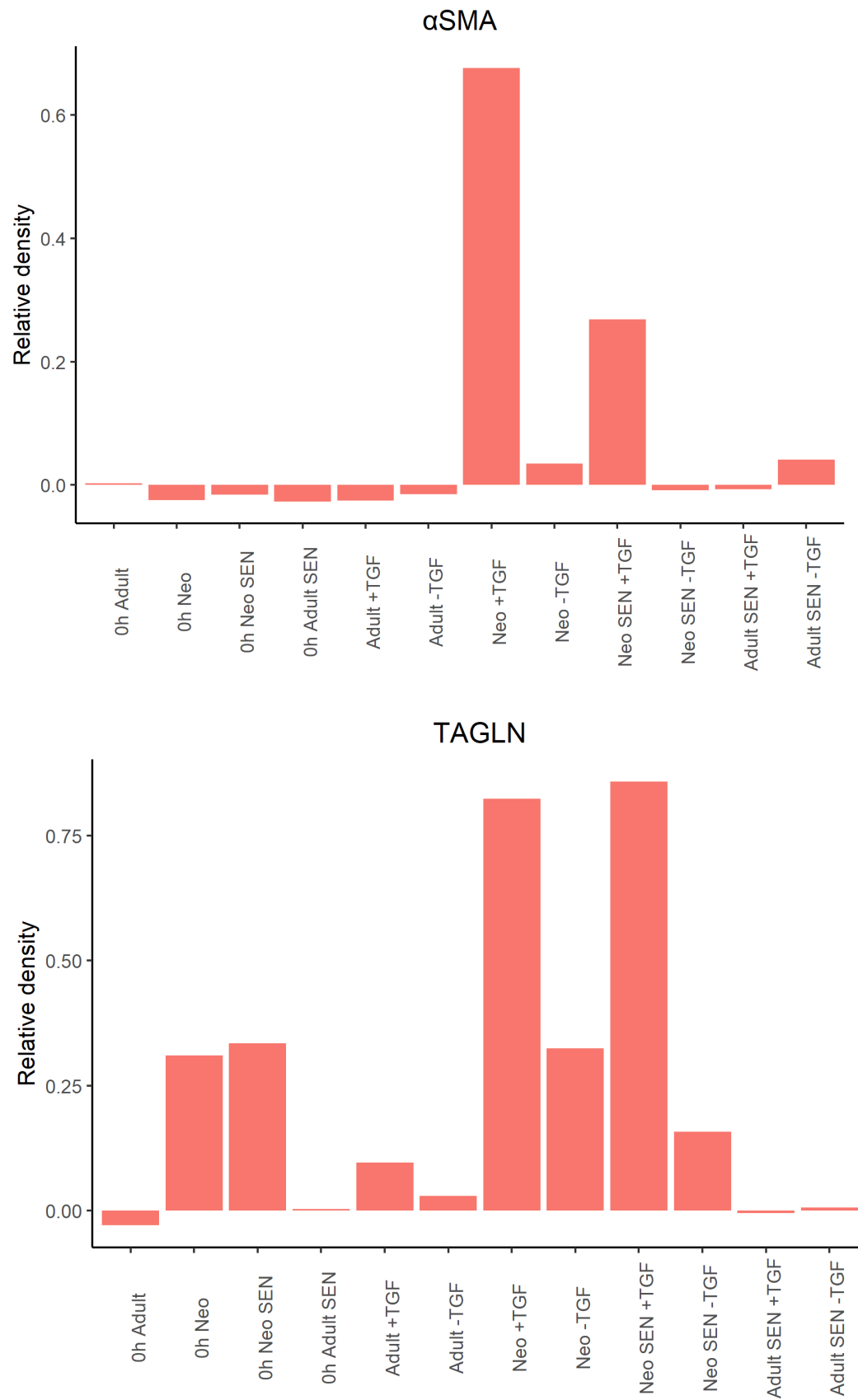


Figure S7 | Densitometry for  $\alpha$ SMA and TAGLN for blots found in Figure 7.

Comparison	Control	TGF- $\beta$
Adult Vs neonatal	16	46
Senescent Vs neonatal	16	30
Neonatal Vs neonatal	7	28
Adult Vs adult	17	37
Senescent Vs senescent	10	25

*Table S1 | Table summarising the number of genes per comparison that were differentially expressed with a (FDR corrected) p-value <0.001 in over 60% of LIMMA analyses per comparison.*