

# Supplementary Materials

## NLRP3, IL-1 $\beta$ , and Caspase 1 Gene-transcript Identification and Expression by QCM-D in Obese Children

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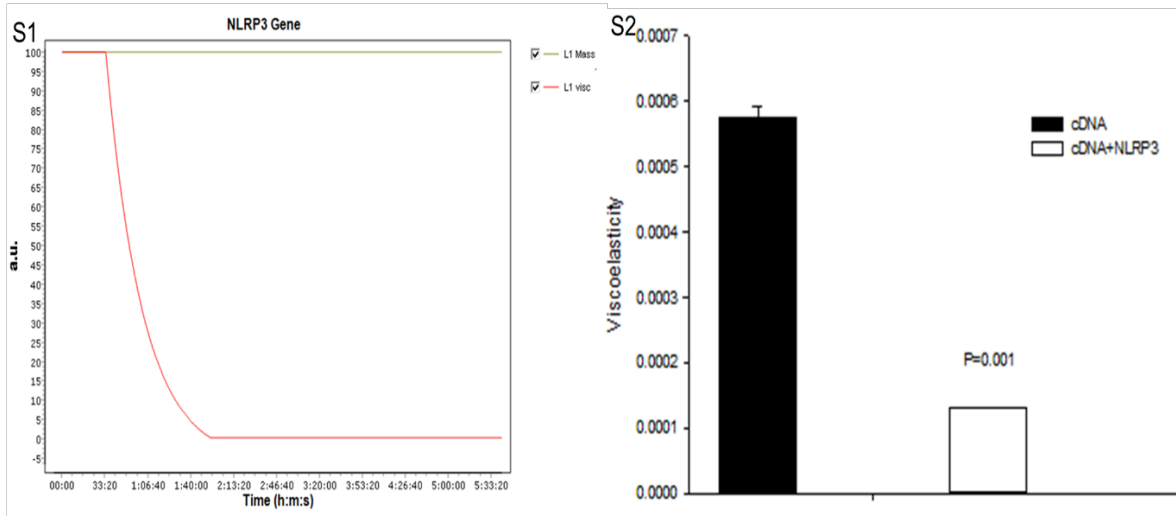
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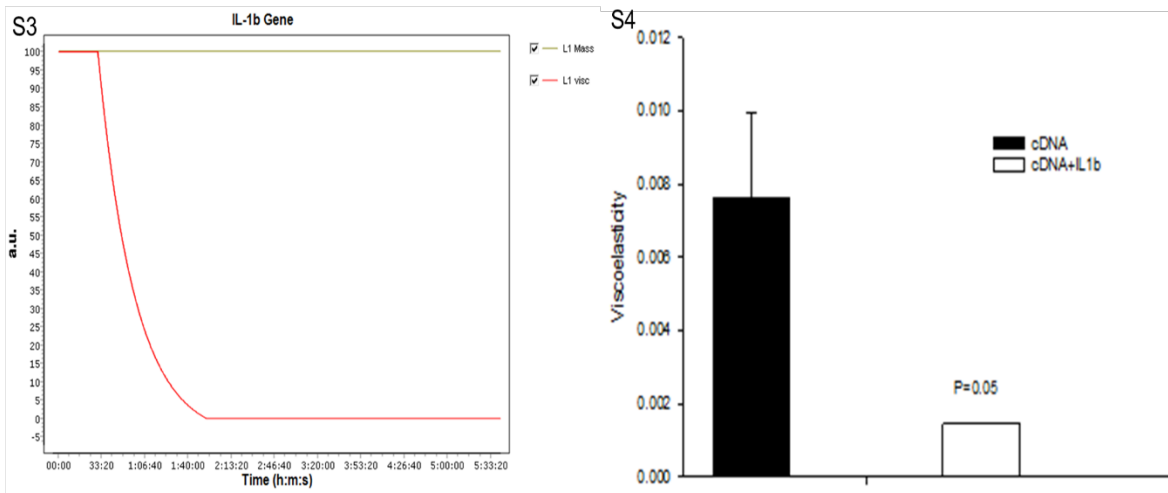
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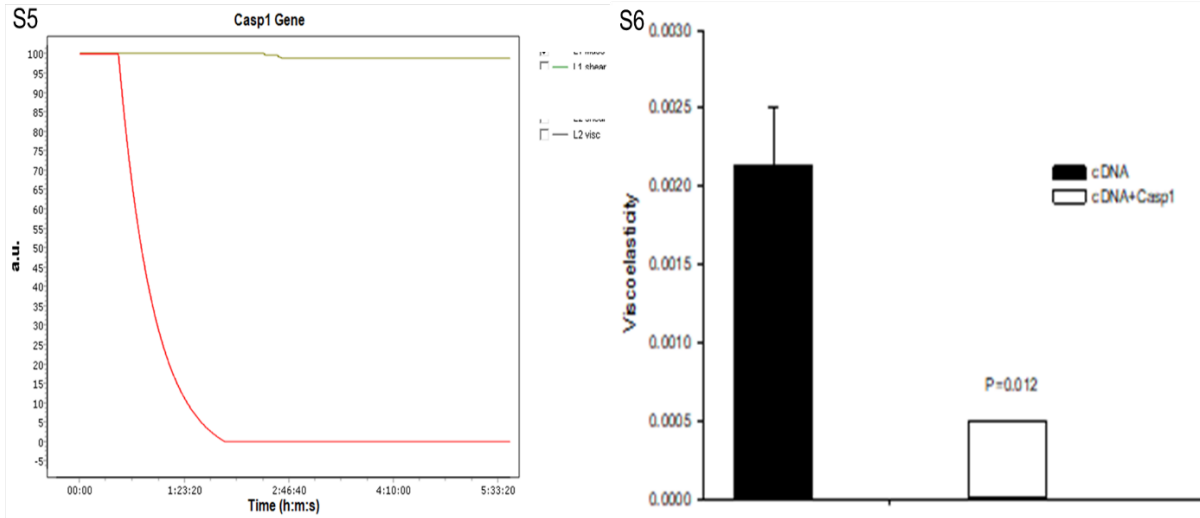
# 1. Results



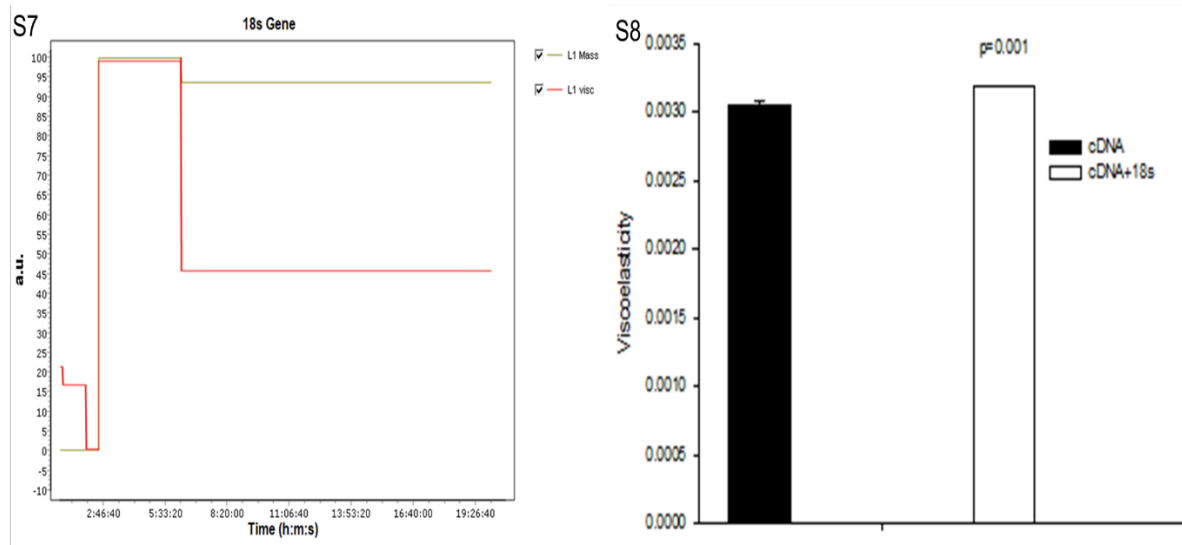
**Figures S1 and S2.** Viscoelasticity decreases upon cDNA hybridization. Figure S2 shows the viscoelasticity of the immobilized cDNA versus the viscoelasticity of the immobilized cDNA plus the specific oligonucleotides for the *NLRP3* gene after hybridization.



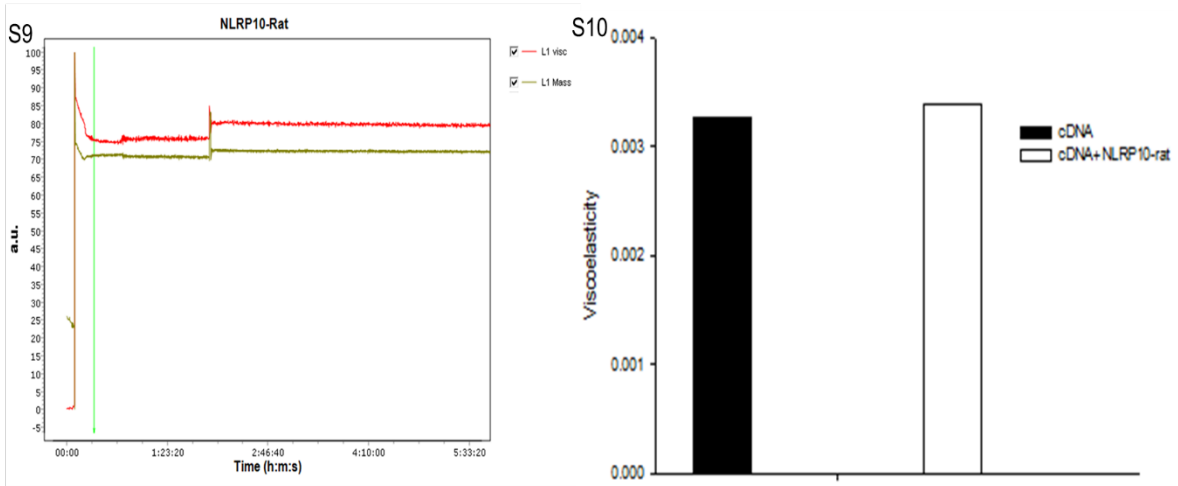
**Figures S3 and S4.** Viscoelasticity decreases upon cDNA hybridization. Figure S4 shows the viscoelasticity of the immobilized cDNA versus the viscoelasticity of the immobilized cDNA plus the specific oligonucleotides for the *IL1 $\beta$*  gene after hybridization (P=0.05).



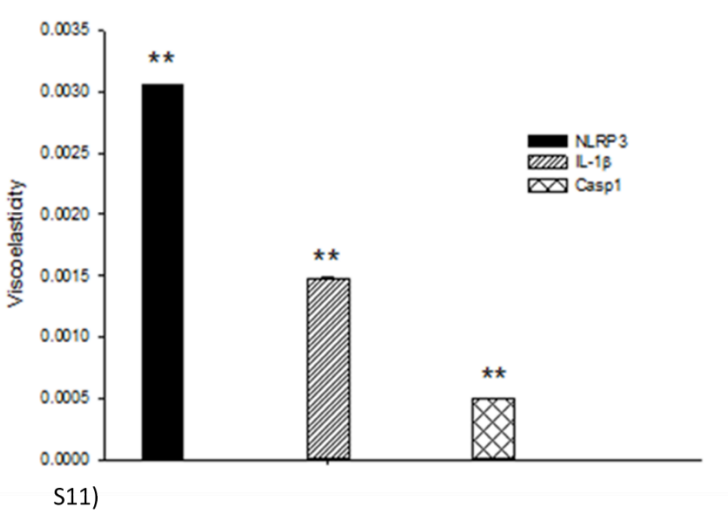
**Figures S5 and S6.** Viscoelasticity decreases upon cDNA hybridization. Figure S6 shows the viscoelasticity of the immobilized cDNA versus the viscoelasticity of the immobilized cDNA plus the specific oligonucleotides for the *CASP-1* gene after hybridization (P=0.012).



**Figures S7 and S8.** Viscoelasticity decreases upon cDNA hybridization. Figure S4 shows the viscoelasticity of the immobilized cDNA versus the viscoelasticity of the immobilized cDNA plus the specific oligonucleotides for the *IL-1 $\beta$*  gene after hybridization (P=0.001).



**Figures S9 and S10.** Viscoelasticity changes of the negative control *NLRP10* rat gene hybridization assay. Figure S10 shows the viscoelasticity of the immobilized cDNA versus the viscoelasticity of the immobilized cDNA plus the specific oligonucleotides for the *NLRP10* rat gene after hybridization.



**Figure S11.** *NLRP3*, *IL-1 $\beta$* , and *CASP-1* gene expression viscoelasticity. Each bar represents the average of 20 individuals.