

## Supplemental Data

# Activation of Proteinase 3 Contributes to Nonalcoholic Fatty Liver Disease and Insulin Resistance

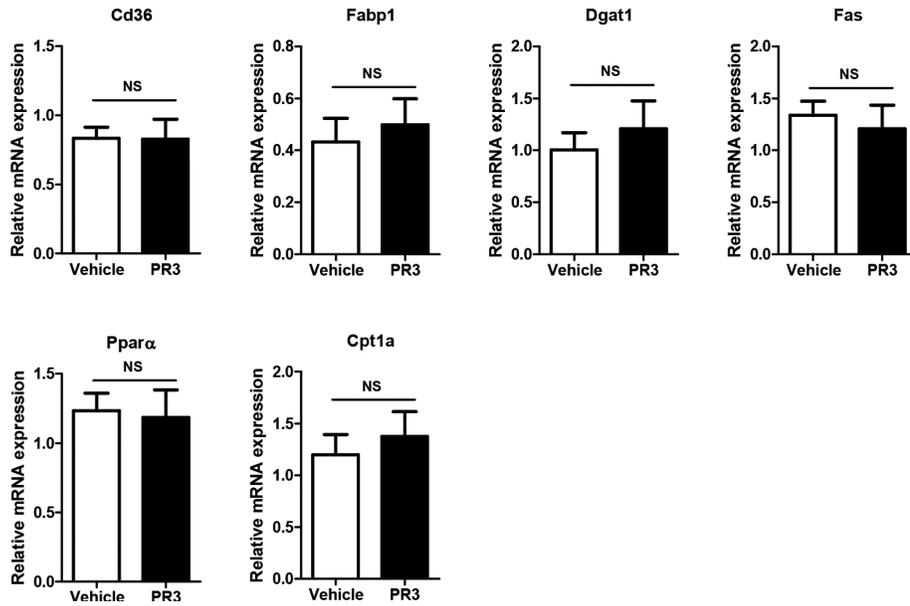
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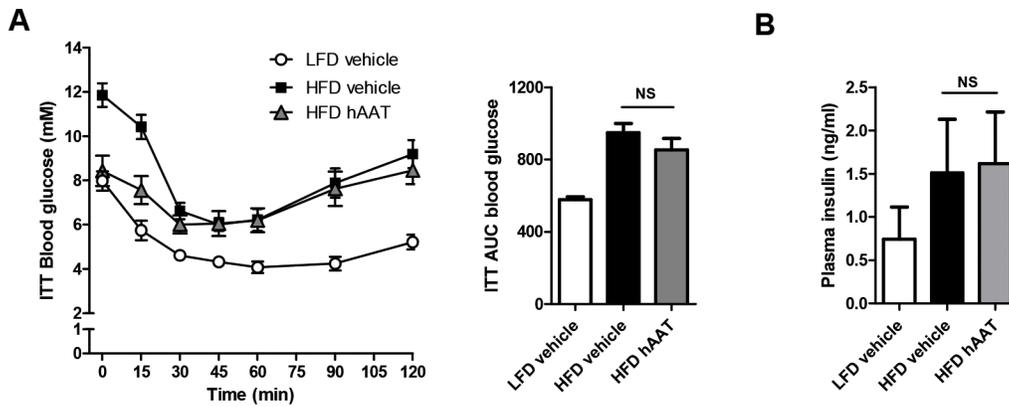


**Supplementary Table S1.** Primers for quantitative PCR.

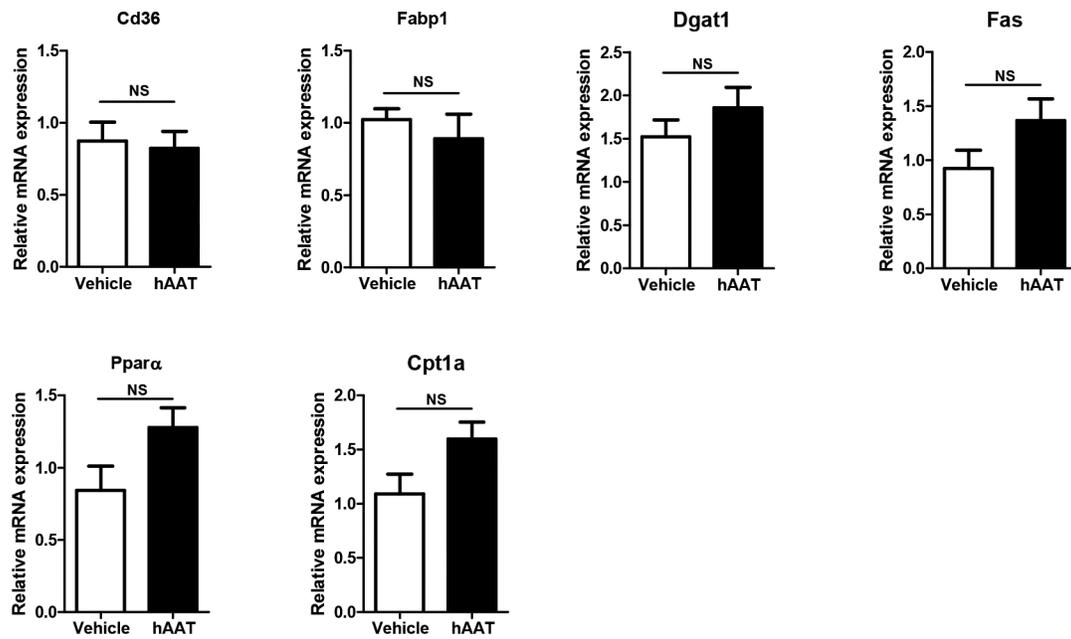
Gene symbol	Forward sequence	Reverse sequence
<i>Casp-1</i>	GGGACCCTCAAGTTTGCC	GACGTGTACGAGTGGTTGTATT
<i>Cd36</i>	ATGGGCTGTGATCGGAACTG	GTCTCCCAATTAAGCATGTCTCC
<i>Cd68</i>	CCAATTCAGGGTGGAAAGAAA	CTCGGGCTCTGATGTAGGTC
<i>Ctsg (CG)</i>	AGAAGACTTCGTCCTAACAGCA	CCTTCTCGCATTGGATGTTGT
<i>Cpt1a</i>	CTCCGCCTGAGCCATGAAG	CACCAGTGATGATGCCATTCT
<i>Dgat1</i>	TCCGTCCAGGGTGGTAGTG	TGAACAAAGAATCTTGCAGACGA
<i>Elane (NE)</i>	CCCATCACAACTGCTGAACGA	AGACATGGAGTCTGTCACCC
<i>Fabp1</i>	ATGAACTTCTCCGGCAAGTACC	CTGACACCCCCTTGATGTCC
<i>Fas</i>	TCCTGGGAGGAATGTAAACAGC	CACAAATTCATTCACTGCAGCC
<i>IL1b</i>	GCAACTGTTCTGAACTCAACT	ATCTTTGGGGTCCGTCAACT
<i>IL1ra</i>	AAATCTGCTGGGGACCCTAC	TGAGCTGGTTGTTCTCAGG
<i>IL6</i>	CAAGTCGGAGGCTTAATACACATG	ATTGCCATTGCACAACCTCTTTCT
<i>Mcp1</i>	CCCAATGAGTAGGCTGGAGA	TCTGGACCCATTCCCTTCTG
<i>Ppara</i>	TATTCGGCTGAAGCTGGTGTAC	CTGGCATTGTTCCGGTCT
<i>Prtn3 (PR3)</i>	ACGGTGGTCACCTTCTATG	GAATGCCATTGCAGATCAAG



**Supplementary Figure S1.** Relative expression of several lipid metabolism genes in the liver of mice treated with vehicle or proteinase 3. Relative expression of the genes *Cd36*, *Fabp1*, *Dgat1*, *Fas*, *Ppara* and *Cpt1a* in the liver of mice treated with either vehicle or proteinase 3. PR3 = proteinase 3; NS = non-significant.



**Supplementary Figure S2.** Insulin tolerance test and insulin values in mice treated with vehicle or human alpha-1 antitrypsin. (A) Insulin tolerance test and ITT AUC values (B) Plasma insulin levels. ITT = insulin tolerance test; LFD = low fat diet; HFD = high fat diet; hAAT = human alpha-1 antitrypsin; AUC = area under curve.



**Supplementary Figure S3.** Relative expression of several lipid metabolism genes in the liver of mice treated with vehicle or human alpha-1 antitrypsin. Relative mRNA expression of *Cd36*, *Fabp1*, *Dgat1*, *Fas*, *Ppara* and *Cpt1a*.