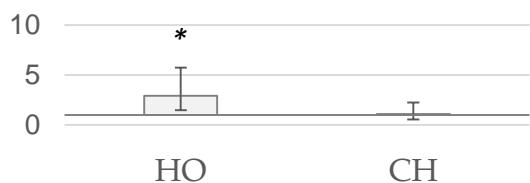


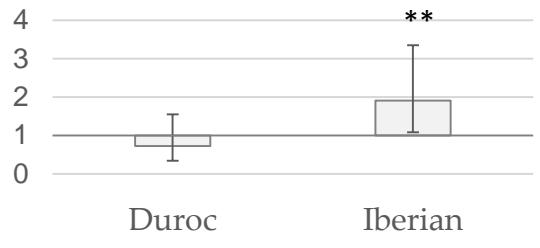
supplementary figure 1: Breed*diet interactions

ME1

BREED effect Iberian-Duroc



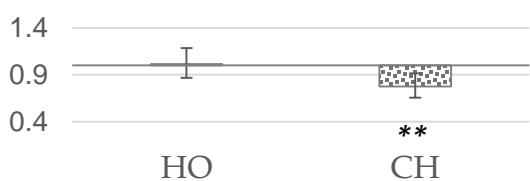
DIET effect HO-CH



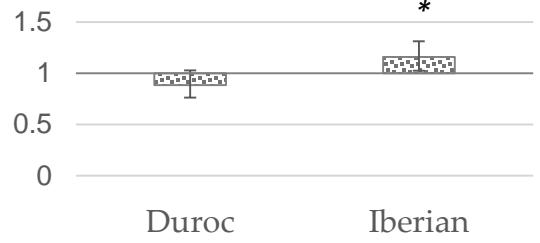
Breed*diet interaction $P<0.07$

ATGL

BREED effect Iberian-Duroc



DIET effect HO-CH



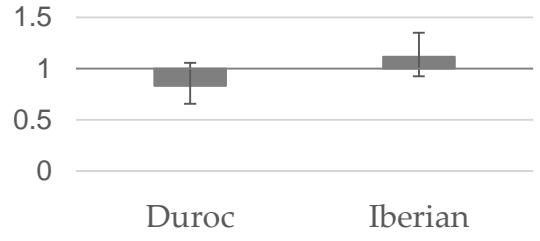
Breed*diet interaction $P<0.0006$

HSL

BREED effect Iberian-Duroc



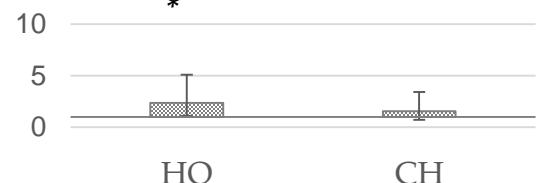
DIET effect HO-CH



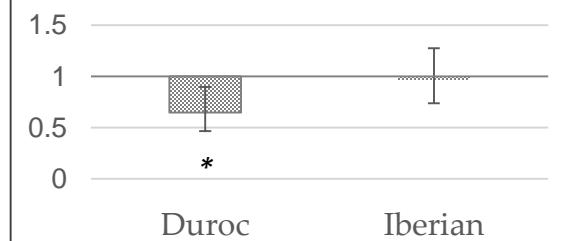
Breed*diet interaction $P<0.07$

PLIN1

BREED effect Iberian-Duroc



DIET effect HO-CH



Breed*diet interaction $P<0.08$

supplementary figure 2: Diet*status interactions

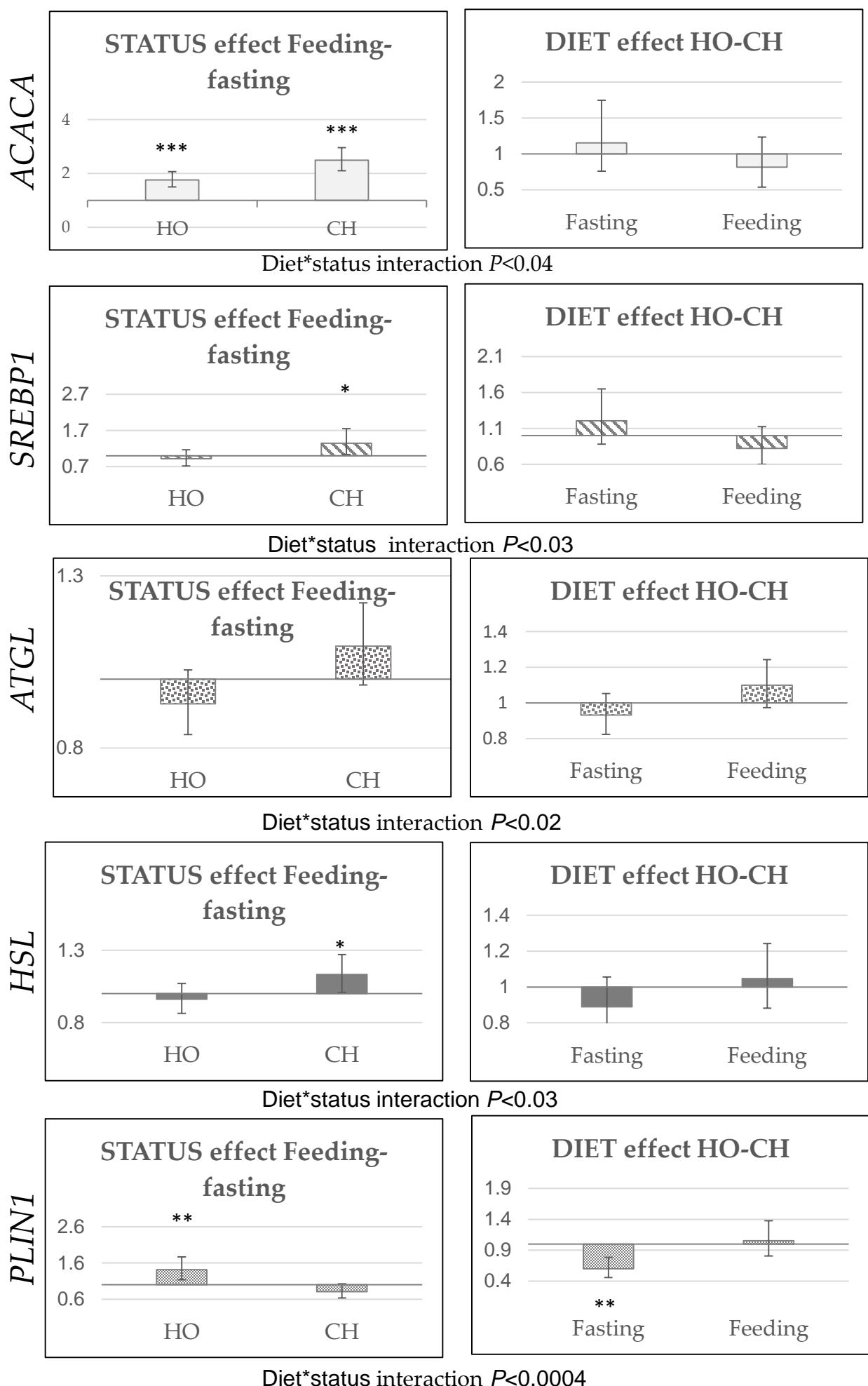


Table S1. Response Factors and Corrections Factors of Fatty acids.

Molecular Mass (M _x)	Number of Carbon atoms (n _x -1)	Response Factor FID* (F _x)	Correction Factor FID* (f _x)
C14:0	242.38	14	1.44
C16:0	270.42	16	1.41
C16:1 n-7	268.41	16	1.40
C16:1 n-9	268.41	16	1.40
C17:0	284.45	17	1.39
C17:1	282.44	17	1.38
C18:0	298.47	18	1.38
C18:1 n-9	296.46	18	1.37
C18:1 n-7	296.46	18	1.37
C18:2 n-6	294.45	18	1.36
C18:3 n-3	292.43	18	1.35
C18:4 n-3	290.42	18	1.34
C20:0	326.52	20	1.36
C22:1 n-9	324.51	20	1.35
C20:2	322.50	20	1.34
C20:3	320.48	20	1.33
C20:4	318.47	20	1.33
C22:5 n-3	344.50	22	1.30
C22:6 n-3	342.49	22	1.30

* FID: Flame Ionization Detector