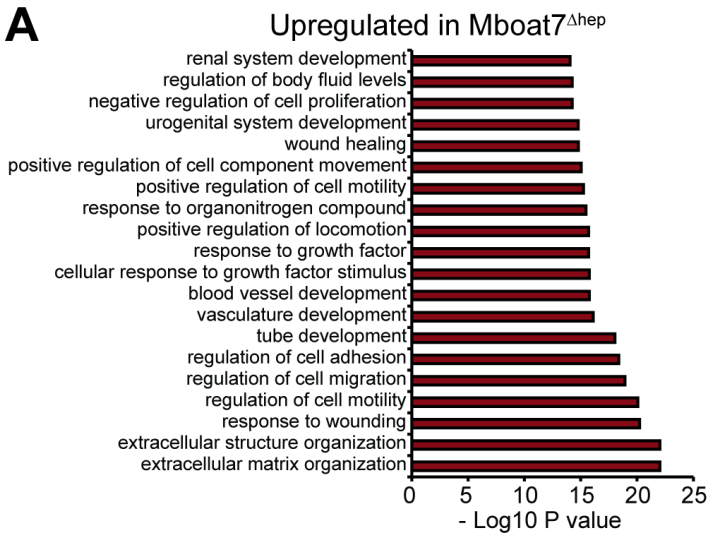
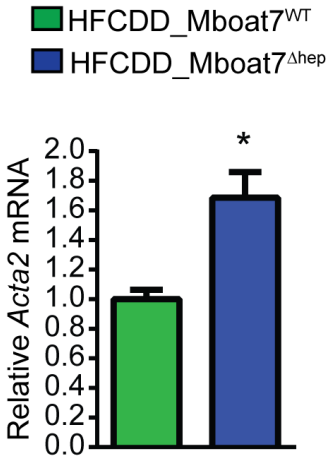
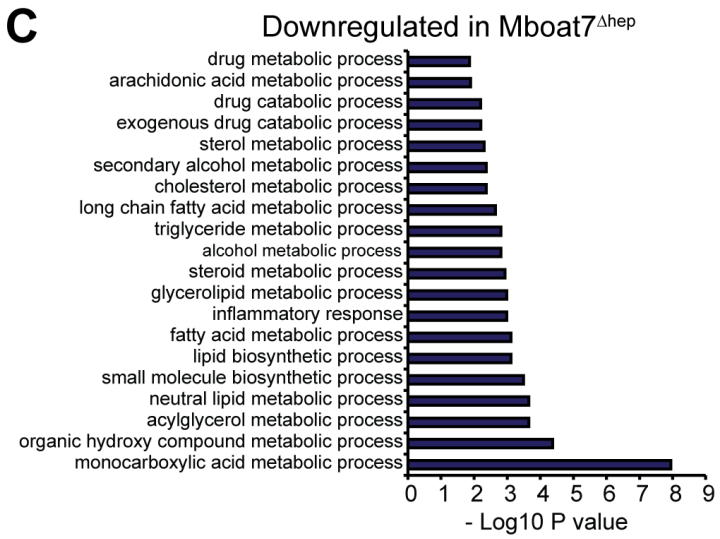
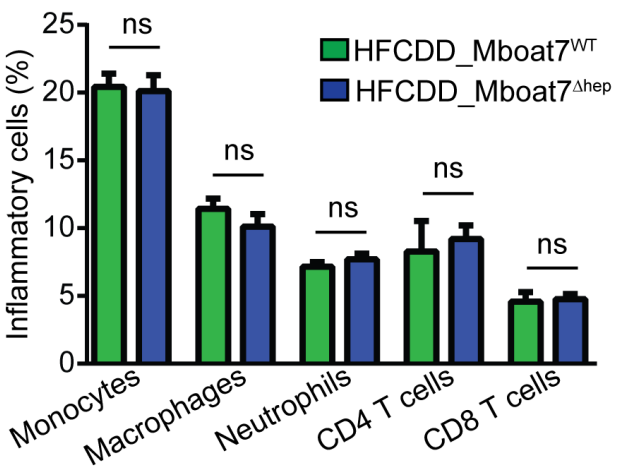
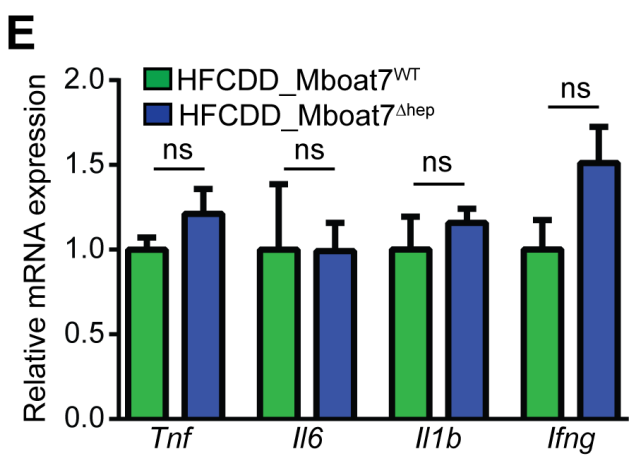
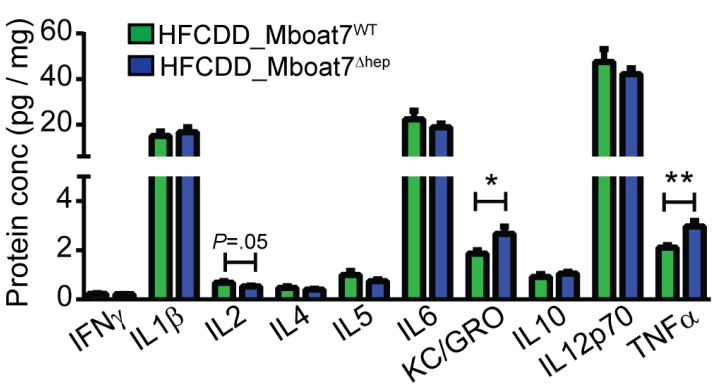

A
Upregulated in Mboat7Δhep
renal system development
regulation of body fluid levels
negative regulation of cell proliferation
urogenital system development
wound healing
positive regulation of cell component movement
positive regulation of cell motility
response to organonitrogen compound
positive regulation of locomotion
response to growth factor
cellular response to growth factor stimulus
blood vessel development
vasculature development
tube development
regulation of cell adhesion
regulation of cell migration
regulation of cell motility
response to wounding
extracellular structure organization
extracellular matrix organization
0 5 10 15 20 25
- Log10 P value


B
HFCDD_Mboat7WT
HFCDD_Mboat7Δhep
Relative Acta2 mRNA
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
*


C
Downregulated in Mboat7Δhep
drug metabolic process
arachidonic acid metabolic process
drug catabolic process
exogenous drug catabolic process
sterol metabolic process
secondary alcohol metabolic process
cholesterol metabolic process
long chain fatty acid metabolic process
triglyceride metabolic process
alcohol metabolic process
steroid metabolic process
glycerolipid metabolic process
inflammatory response
fatty acid metabolic process
lipid biosynthetic process
small molecule biosynthetic process
neutral lipid metabolic process
acylglycerol metabolic process
organic hydroxy compound metabolic process
monocarboxylic acid metabolic process
0 1 2 3 4 5 6 7 8 9
- Log10 P value


D
HFCDD_Mboat7WT
HFCDD_Mboat7Δhep
Inflammatory cells (%)
25
20
15
10
5
0
ns
ns
ns
ns
ns
Monocytes
Macrophages
Neutrophils
CD4 T cells
CD8 T cells


E
HFCDD_Mboat7WT
HFCDD_Mboat7Δhep
Relative mRNA expression
2.0
1.5
1.0
0.5
0.0
ns
ns
ns
ns
Tnf
Il6
Il1b
Ifng


F
HFCDD_Mboat7WT
HFCDD_Mboat7Δhep
Protein conc (pg / mg)
60
40
20
4
2
0
P=.05
*
**
IFNγ
IL1β
IL2
IL4
IL5
IL6
KC/GRO
IL10
IL12p70
TNFα