

SUPPLEMENTARY INFORMATION

Tissue Proteome of 2-hydroxyacyl-CoA lyase deficient mice reveals peroxisome proliferation and activation of ω -oxidation

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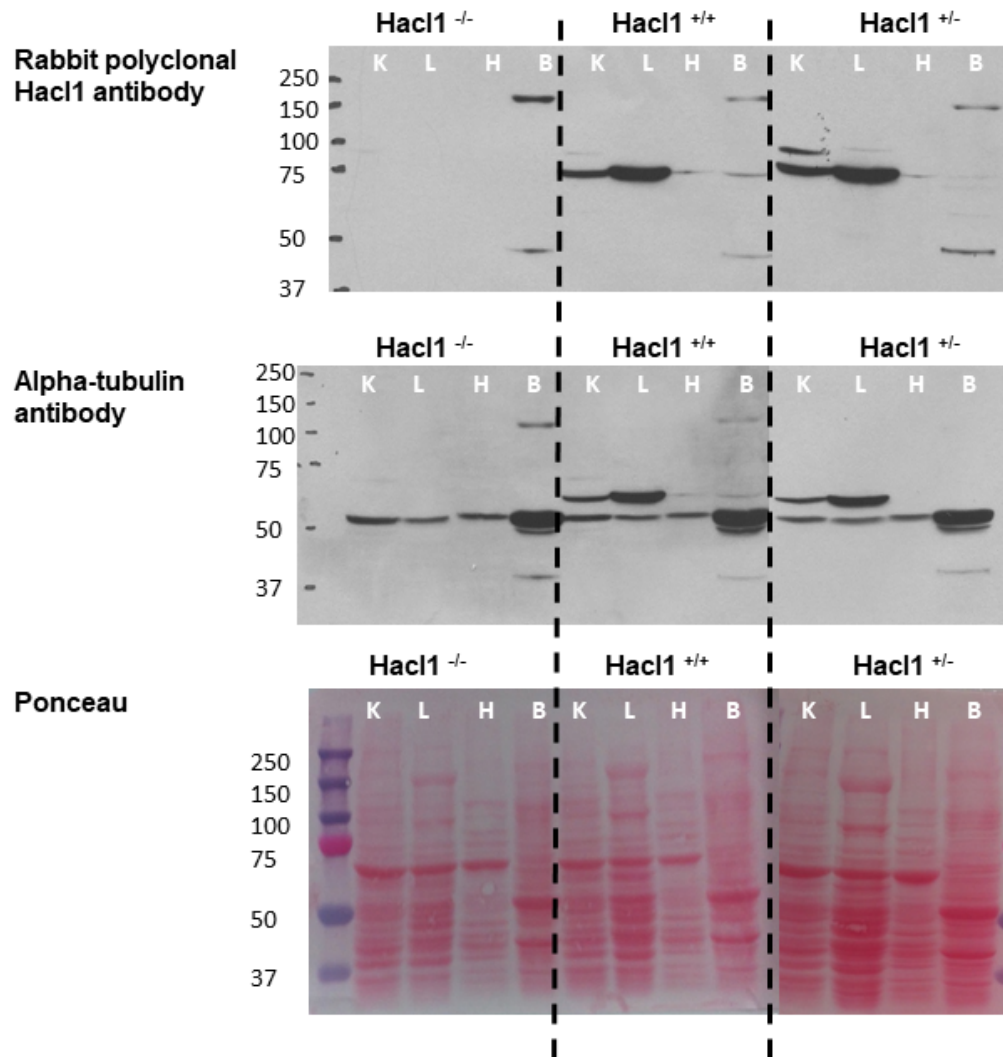
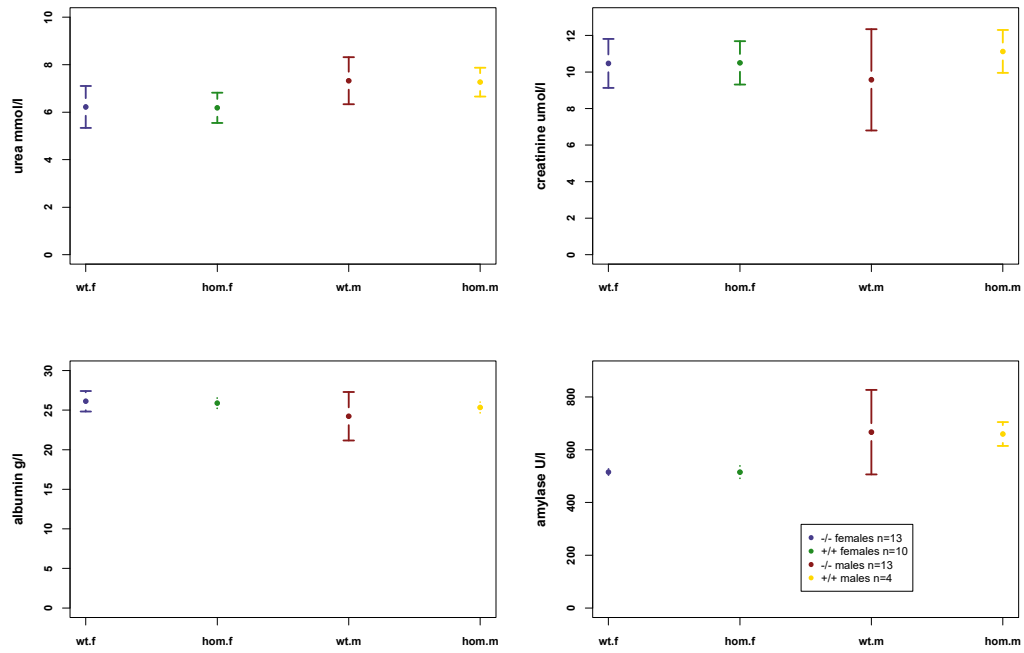


Figure S1. Western blots of mouse tissues. Hacl1 protein was not detected in knockout mouse tissue homogenates. K, Kidney; L, Liver; H, Heart; B, Brain

A



B

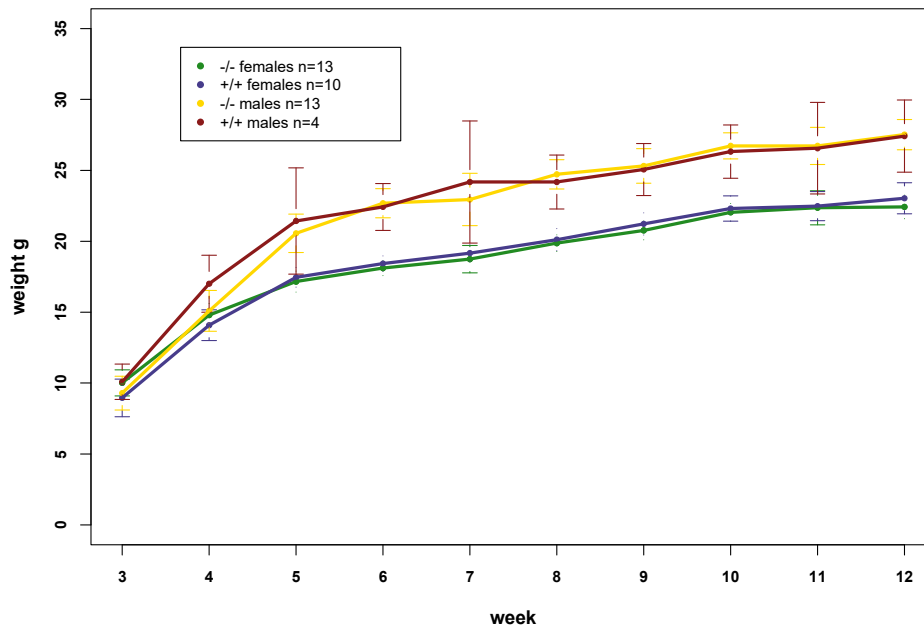
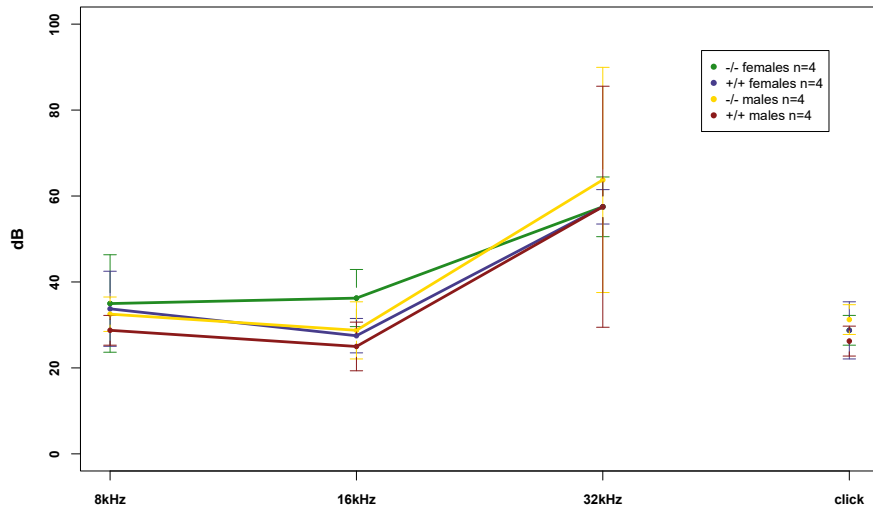
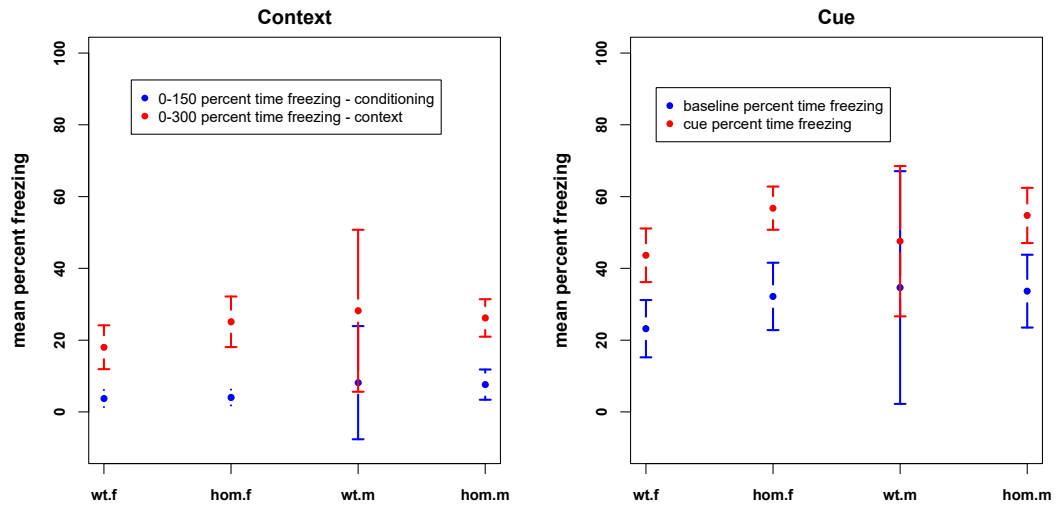


Figure S2. No differences in A) serum urea, creatinine, amylase or urine protein or B) body weight were observed between wild type and *Hac11*^{-/-} animals.

A



B



C

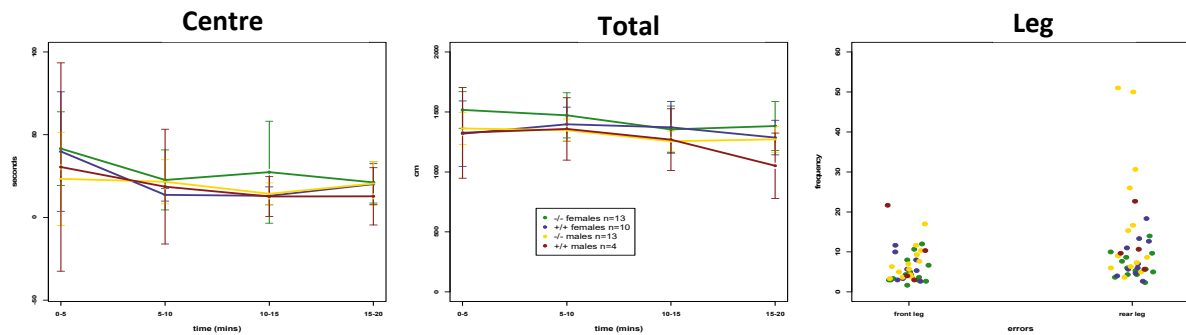


Figure S3. No differences in A) acoustic brainstem responses, B) fear conditioning responses or C) locomotor activity were observed between wild type and $Hac11^{-/-}$ animals.

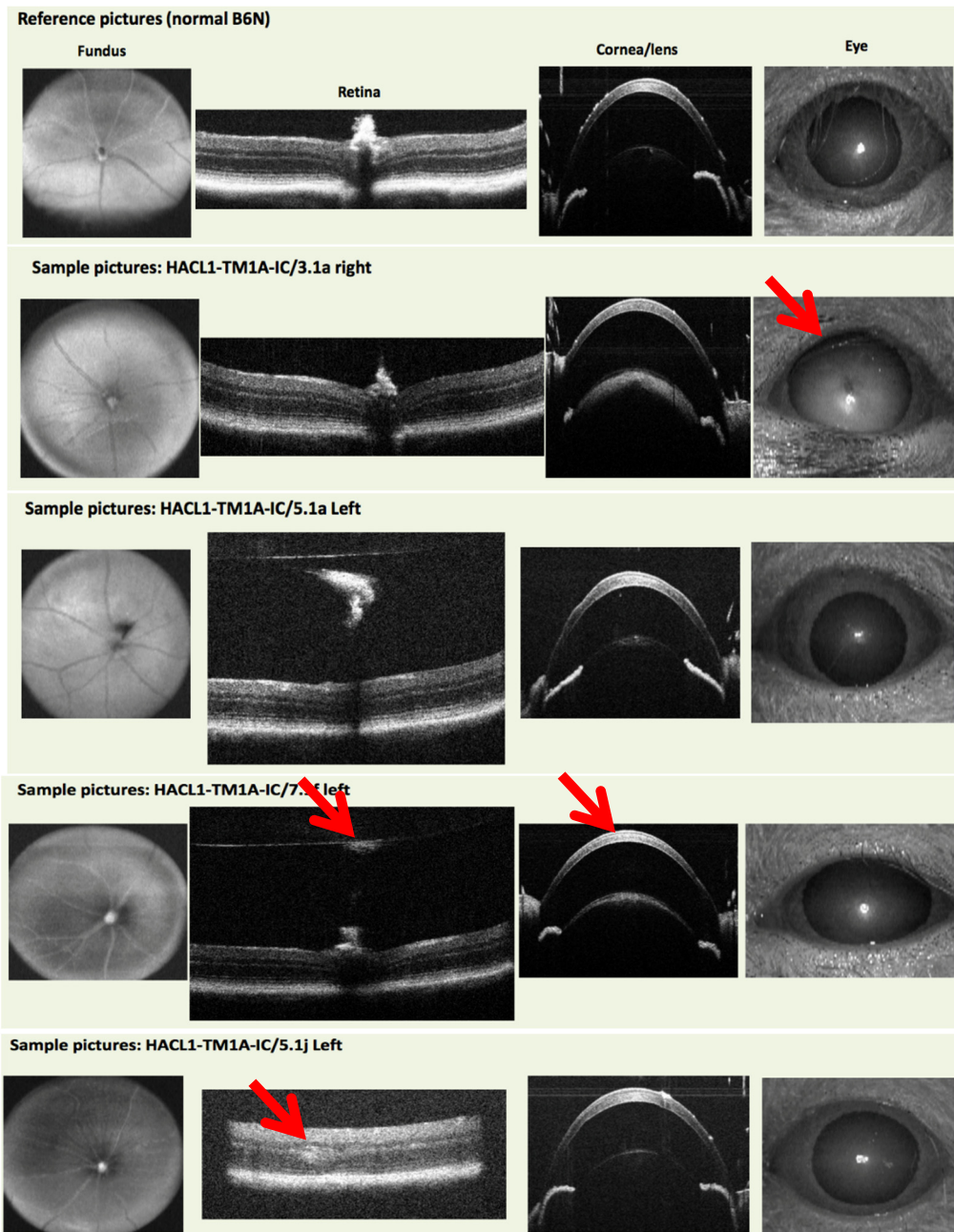


Figure S4. Representative examples of optical coherence tomography showing abnormalities (arrows) that were observed in both knockout than wild type animals.

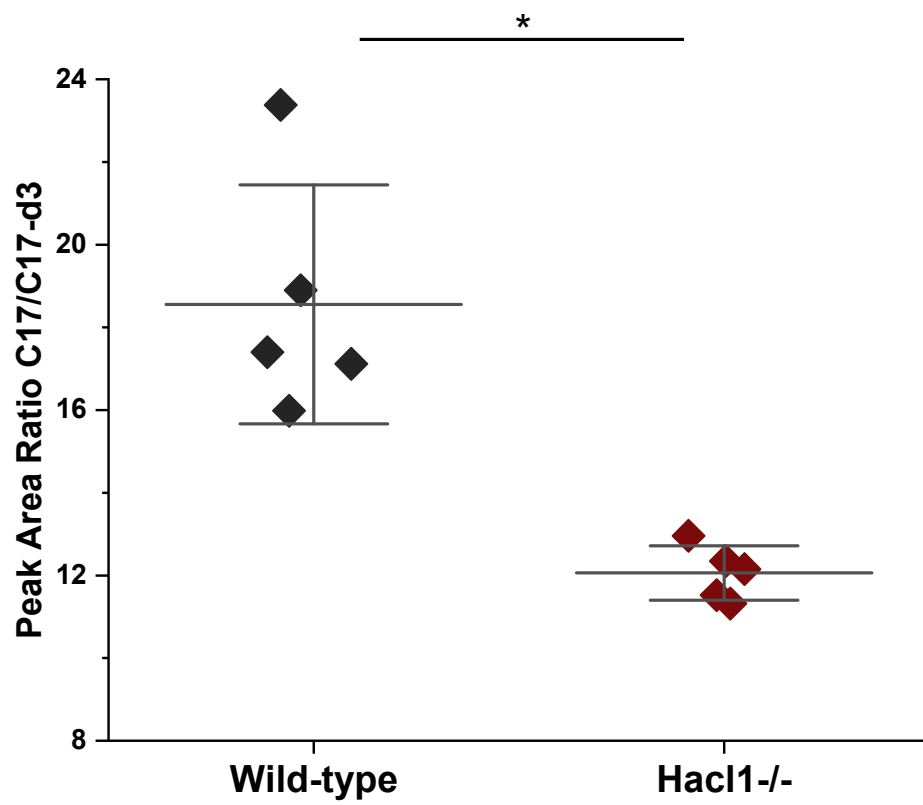
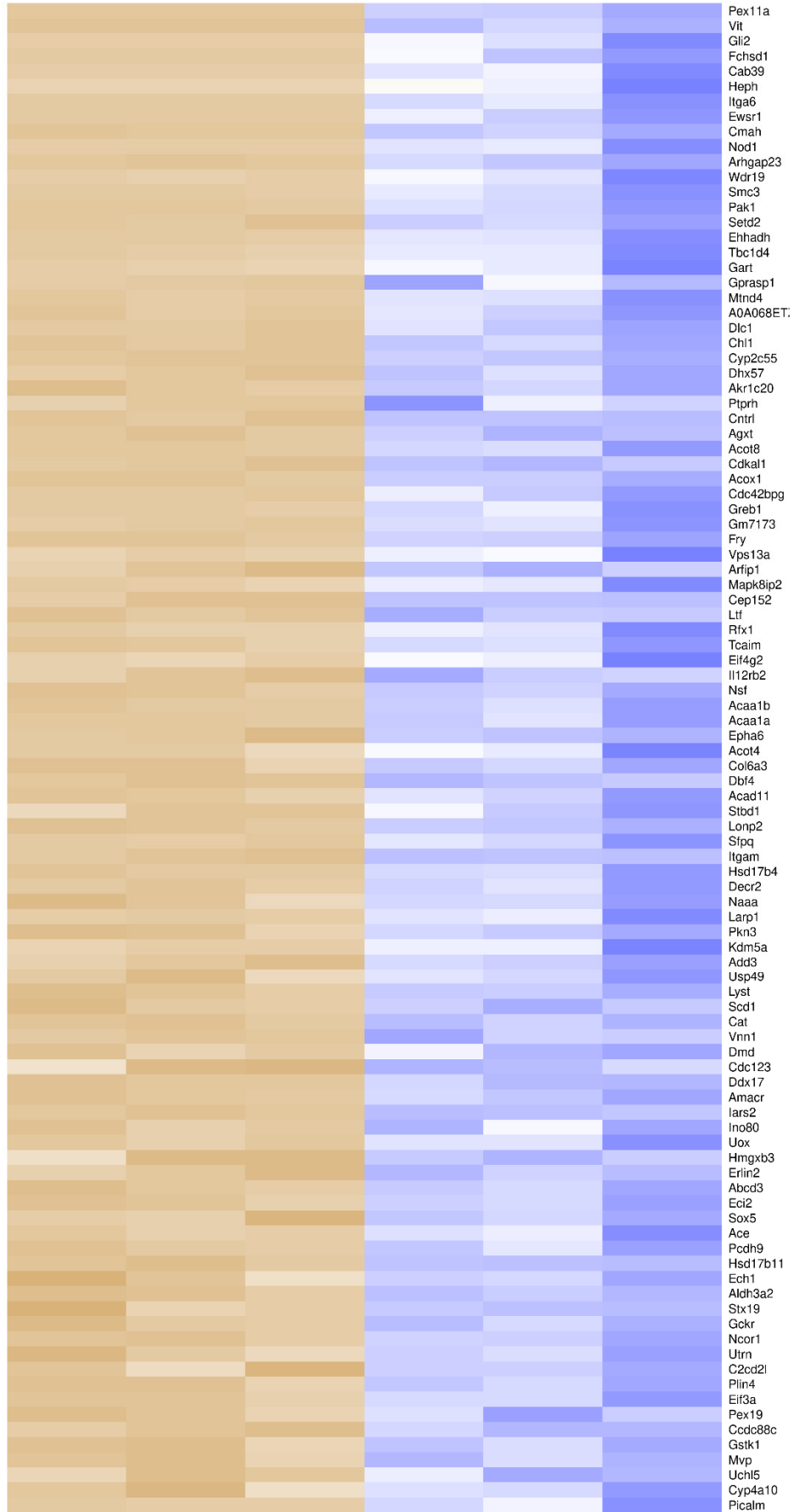
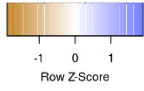
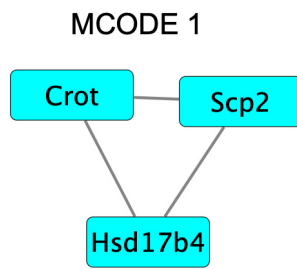


Figure S5. Liver heptadecanoic acid presented as peak area ratio with d3-heptadecanoic acid internal standard. Heptadecanoic acid is significantly reduced in *Hacl1*^{-/-} liver (P<0.01).





MCODE_1 R-MMU-389887 Beta-oxidation of pristanoyl-CoA
MCODE_1 R-MMU-390918 Peroxisomal lipid metabolism
MCODE_1 R-MMU-9033241 Peroxisomal protein import

Figure S7. Protein-protein interaction network in *Hsd17b4*^{-/-} mouse kidney