

## Supplemental Data

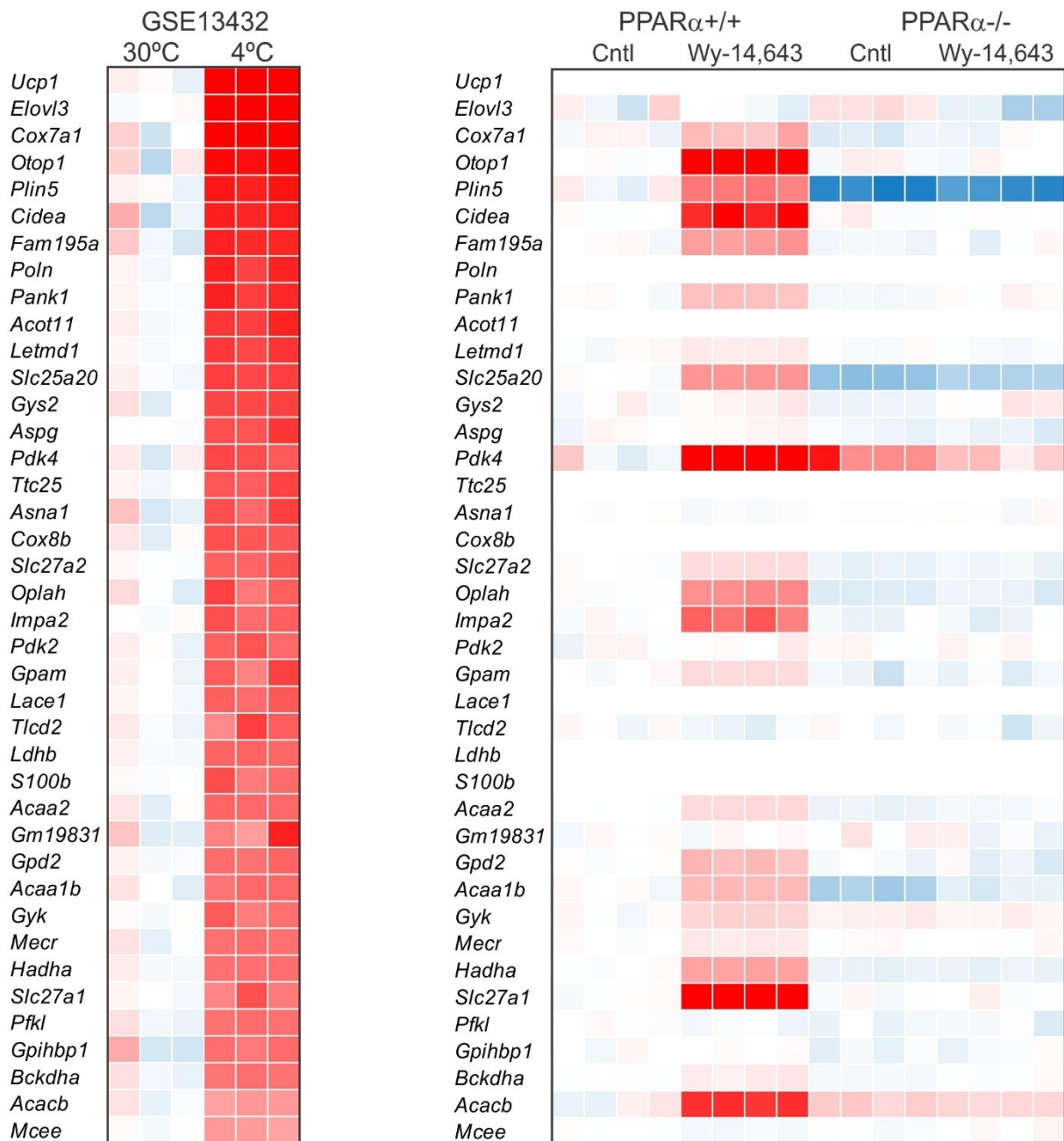
### **The Peroxisome Proliferator-Activated Receptor $\alpha$ is dispensable for cold-induced adipose tissue browning in mice**

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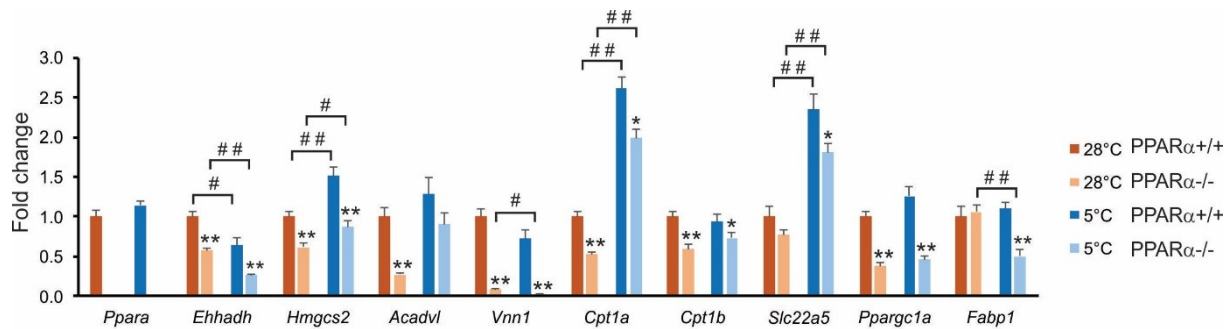
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Supplemental table 1. List of primers used.

<i>Pparg</i>	CACAATGCCATCAGGTTTGG	GCTGGTCGATATCACTGGAGATC
<i>Fabp4</i>	AAGAAGTGGGAGTGGGCTTT	AATCCCCATTTACGCTGATG
<i>36B4</i>	ATGGGTACAAGCGCGTCCTG	GCCTTGACCTTTTCAGTAAG
<i>Elovl3</i>	TTCTCACGCGGGTTAAAAATGG	GAGCAACAGATAGACGACCAC
<i>Adtrp</i>	TGTGGCGCTACGTTTCAGAC	CCGGCGACTAGGATGTAAGC
<i>Slc2a4</i>	GGAAGGAAAAGGGCTATGCTG	TGAGGAACCGTCCAAGAATGA
<i>Ucp1</i>	CCTGCCTCTCTCGGAAACAA	TGTAGGCTGCCCAATGAACA
<i>Cidea</i>	TGACATTCATGGGATTGCAGAC	GGCCAGTTGTGATGACTAAGAC
<i>Ppargca1</i>	AGACGGATTGCCCTCATTTGA	TGTAGCTGAGCTGAGTGTTGG
<i>G0s2</i>	AGTGCTGCCTCTCTTCCCAC	TTCCATCTGAGCTCTGGGC
<i>Gpd1</i>	CTCGCCATCGCCCTCACTG	ACCGCTCACTCGCTCTTTGC
<i>Ppara</i>	TATTCGGCTGAAGCTGGTGTAC	CTGGCATTGTGTTCCGGTTCT
<i>Ehhadh</i>	AAAGCTAGTTTGGACCATACGG	ATGTAAGGCCAGTGGGAGATT
<i>Hmgcs2</i>	TTCTTGCGGTAGGCTGCATAG	TGGTGGATGGGAAGCTGTCTA
<i>Acadvl</i>	CACTCAGGCAGTTCTGGACA	TCCCAGGGTAACGCTAACAC
<i>Vnn1</i>	CTTTCCTCGCGGCTGTTTAC	CCTCCAGGTATGGGTAGATCGT
<i>Cpt1a</i>	CTCAGTGGGAGCGACTCTTCA	GGCCTCTGTGGTACACGACAA
<i>Cpt1b</i>	GAGCCAGATTCCTGCACCATTG	CCCTGCTGGGTCCTTCCAAG
<i>Slc25a20</i>	CCGAAACCCATCAGTCCGTTTAA	ACATAGGTGGCTGTCCAGACAA
<i>Slc22a5</i>	TTGGAGACGAAGGACGGACG	GCTCAGAGAAGTTGGCGATGG
<i>Fabp1</i>	ATGAACTTCTCCGGCAAGTACC	CTGACACCCCCTTGATGTCC
<i>Cd36</i>	AGATGACGTGGCAAAGAACAG	CCTTGGCTAGATAACGAACTCTG
<i>PKD4</i>	TGGAGCATTTCTCGCGCTAC	ACAGGCAATTCTTGTCGCAAA
<i>ACADVL</i>	GTCTGGTGGTCTCTACCGC	CACGGGTCCCAAGAAGTACTGAT
<i>ADIPOQ</i>	TATCCCCAACATGCCCATTCG	TGGTAGGCAAAGTAGTACAGCC
<i>UCPI</i>	AGGATCGGCCTCTACGACAC	GCCCAATGAATACTGCCACTC



Supplemental figure 1. PPAR $\alpha$  is highly upregulated during cold-induced browning. (A) Heatmap of the top 40 most highly induced genes in subcutaneous adipose tissue of mice after 7 days at 4°C as compared to 7 days at 30°C (GSE13432). In parallel, the expression profiles are shown of the same genes in livers of wild type and PPAR $\alpha$ -/- mice treated with Wy-14.643 for 5 days (GSE8295).



Supplemental figure 2. Effect of PPAR $\alpha$  ablation on hepatic gene expression during acute cold. Hepatic expression of selected genes in wildtype and PPAR $\alpha$ -/- mice exposed to cold (5°C) or thermoneutrality (28°C) for 24h. Both groups of mice were housed at thermoneutrality (28°C) for 5 weeks prior to the intervention. Error bars represent SEM. Asterisk indicates significantly different from wildtype mice under the same conditions according to Student's t-test (\*P<0.05, \*\*P<0.001). Pound sign indicates significant difference between cold and thermoneutral mice according to Student's t-test (#P<0.05, ##P<0.001).