

Fig. S1

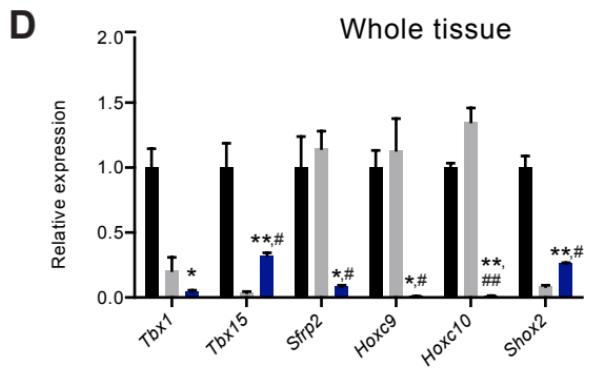
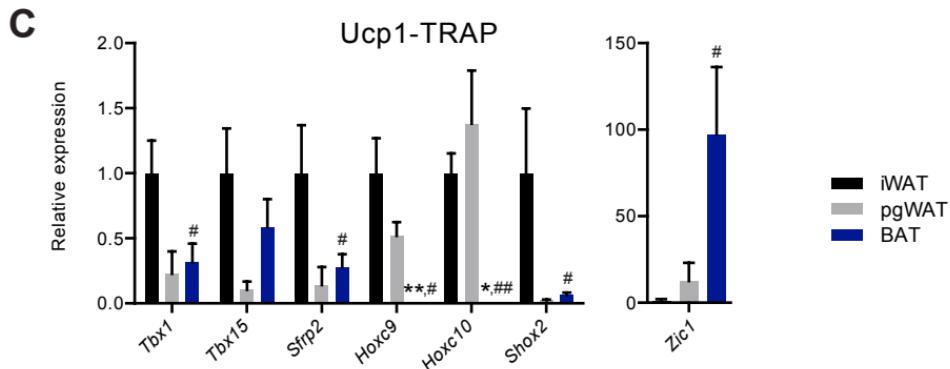
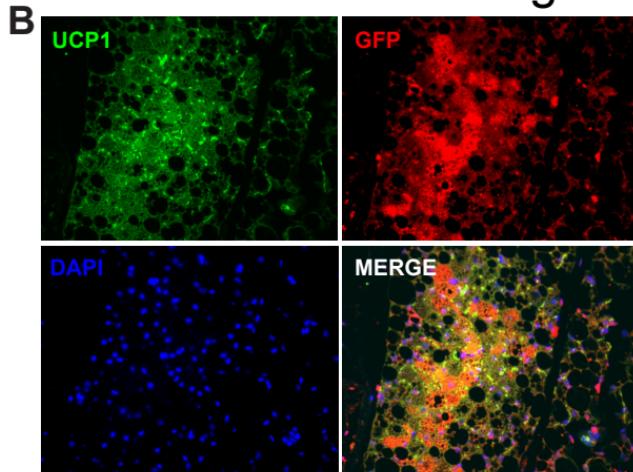
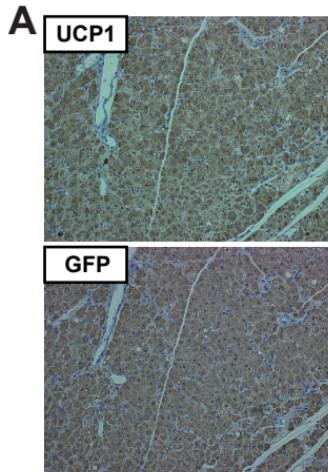
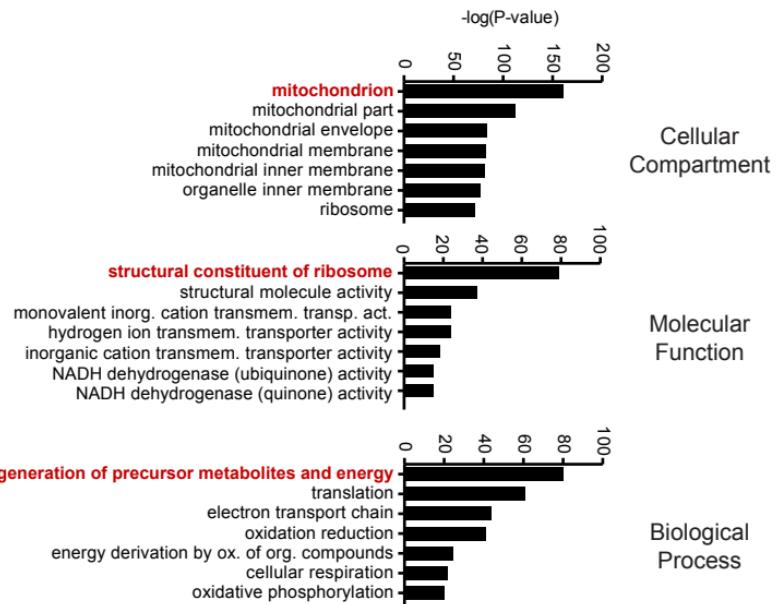
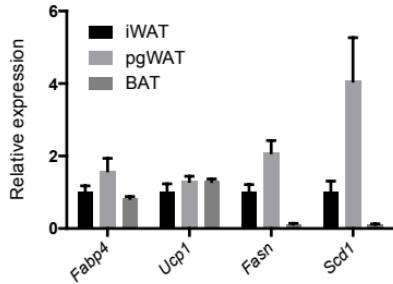


Fig. S2

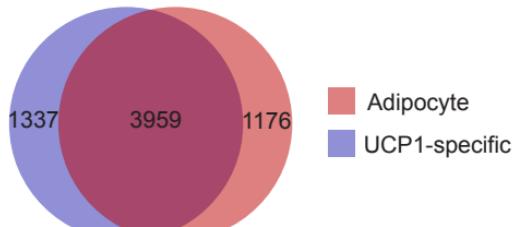
A



B



C



A

Ucp1-TRAP-Seq
iWAT-selective genes

	iWAT	pgWAT	BAT
<i>Expi</i>	1.0	0.0	0.0
<i>Acta2</i>	1.0	0.0	0.0
<i>Lcn2</i>	1.0	0.1	0.1
<i>Fxyd3</i>	1.0	0.0	0.0
<i>Ltf</i>	1.0	0.0	0.0
<i>Tagln</i>	1.0	0.0	0.1
<i>Krt5</i>	1.0	0.0	0.0
<i>Il17b</i>	1.0	0.0	0.0
<i>Krt14</i>	1.0	0.0	0.0
<i>Myh11</i>	1.0	0.1	0.1
<i>Myl9</i>	1.0	0.0	0.0
<i>Cnn1</i>	1.0	0.0	0.0
<i>Slco1a5</i>	1.0	0.3	0.9
<i>Ripk4</i>	1.0	0.1	0.2
<i>Dsg2</i>	1.0	0.0	0.0
<i>Muc15</i>	1.0	0.1	0.1
<i>Cd24a</i>	1.0	0.0	0.1
<i>Cla2</i>	1.0	0.0	0.1
<i>Ehf</i>	1.0	0.0	0.0
1600029D21Rik	1.0	0.0	0.0
<i>Crispld2</i>	1.0	0.1	0.0
<i>Plekhb1</i>	1.0	0.0	0.0
<i>Cldn3</i>	1.0	0.1	0.2
<i>Marcks1</i>	1.0	0.0	0.0
<i>Irx1</i>	1.0	0.3	0.5
<i>Cdh1</i>	1.0	0.1	0.2
<i>Serinc2</i>	1.0	0.1	0.2
<i>Lama3</i>	1.0	0.1	0.2
<i>Pdlim3</i>	1.0	0.0	0.0
<i>Atp6v1b1</i>	1.0	0.0	0.0
<i>Irx2</i>	1.0	0.0	0.0

B

Ucp1-TRAP-Seq
pgWAT-selective genes

	iWAT	pgWAT	BAT
<i>Ugt1a6b</i>	0.3	1.0	0.2
<i>Exoc1</i>	0.9	1.0	1.1
<i>Zdhhc24</i>	0.4	1.0	1.4
<i>Klh15</i>	1.0	1.0	0.9
<i>Gata6</i>	0.1	1.0	0.0
<i>Emcn</i>	0.4	1.0	0.7
<i>Tnfrsf22</i>	0.9	1.0	0.5
<i>Igfals</i>	0.7	1.0	1.9
<i>Olfml1</i>	0.3	1.0	0.0
<i>Esam</i>	0.4	1.0	0.4
<i>Gulp1</i>	0.4	1.0	0.3
1700030K09Rik	0.5	1.0	0.6
6430550D23Rik	0.0	1.0	0.0
1700084E18Rik	1.0	1.0	1.9
<i>Rspo1</i>	0.3	1.0	0.2
<i>Prune2</i>	1.5	1.0	2.4
<i>Car15</i>	1.6	1.0	1.7
<i>Mustn1</i>	0.2	1.0	0.3
<i>Mutyh</i>	0.6	1.0	0.6
<i>Dpp4</i>	0.2	1.0	0.0
<i>Ccdc46</i>	0.3	1.0	0.6
<i>Lrrn4</i>	0.1	1.0	0.2
<i>Kcnj15</i>	0.3	1.0	0.2
<i>Pllp</i>	1.2	1.0	0.6
<i>Zfp28</i>	0.5	1.0	0.8
<i>B3gnt1</i>	0.9	1.0	1.0
<i>Rad9b</i>	0.2	1.0	0.5
<i>Pcdhb17</i>	1.2	1.0	0.9
9330179D12Rik	0.7	1.0	0.4
<i>Cyth4</i>	0.3	1.0	0.4
<i>Gm12824</i>	0.2	1.0	0.1

C

Ucp1-TRAP-Seq
BAT-selective genes

	iWAT	pgWAT	BAT
<i>Mt2</i>	0.2	0.3	1.0
<i>Gdf15</i>	0.0	0.1	1.0
<i>Myc</i>	0.2	0.2	1.0
<i>Hmgaa1</i>	1.1	0.7	1.0
<i>Arhgdig</i>	0.1	0.1	1.0
<i>Otud1</i>	0.2	0.3	1.0
<i>Gfra1</i>	0.2	0.1	1.0
<i>Gnmt</i>	0.1	0.3	1.0
<i>Nup43</i>	0.3	0.2	1.0
<i>Mylpf</i>	0.1	0.2	1.0
<i>Rsp1</i>	0.1	0.8	1.0
<i>Psmc3ip</i>	0.5	0.5	1.0
<i>Srgn</i>	1.3	1.5	1.0
<i>Cxcr4</i>	2.2	1.2	1.0
<i>Cpne5</i>	0.7	1.1	1.0
<i>Gtsf1l</i>	0.6	0.5	1.0
1810010H24Rik	0.4	0.6	1.0
<i>Kcnh6</i>	0.0	0.0	1.0
<i>Rnaset2a</i>	0.4	0.8	1.0
<i>Zic1</i>	0.0	0.0	1.0
<i>Fosf1</i>	0.1	0.1	1.0
E230016K23Rik	0.5	0.8	1.0
<i>Pcdhgb2</i>	2.2	0.9	1.0

Fig. S3

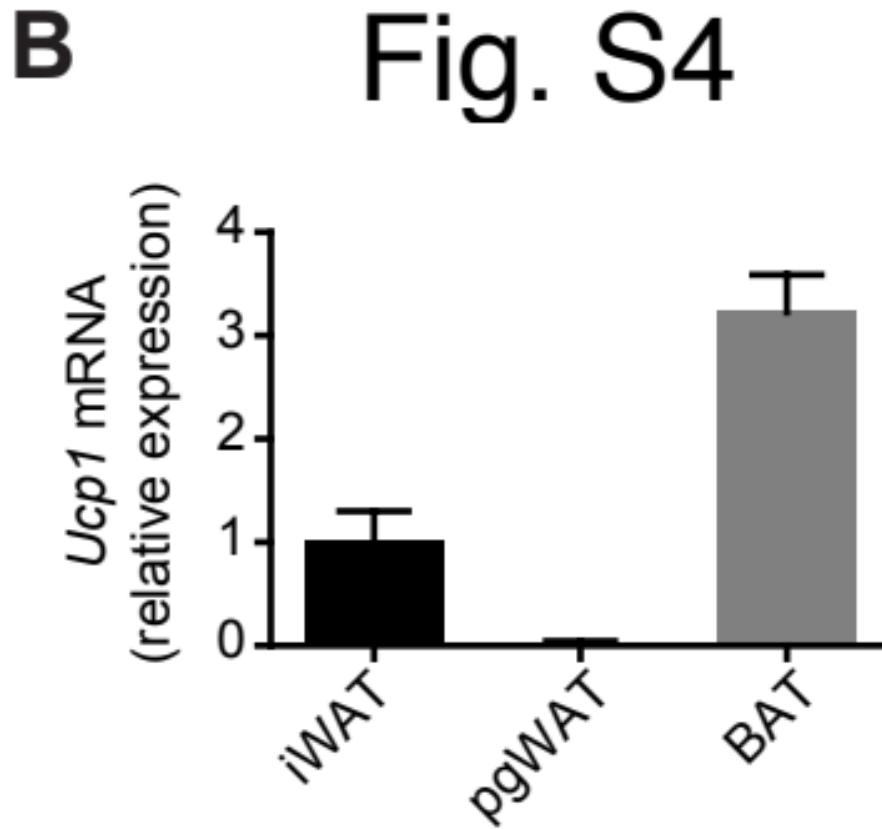
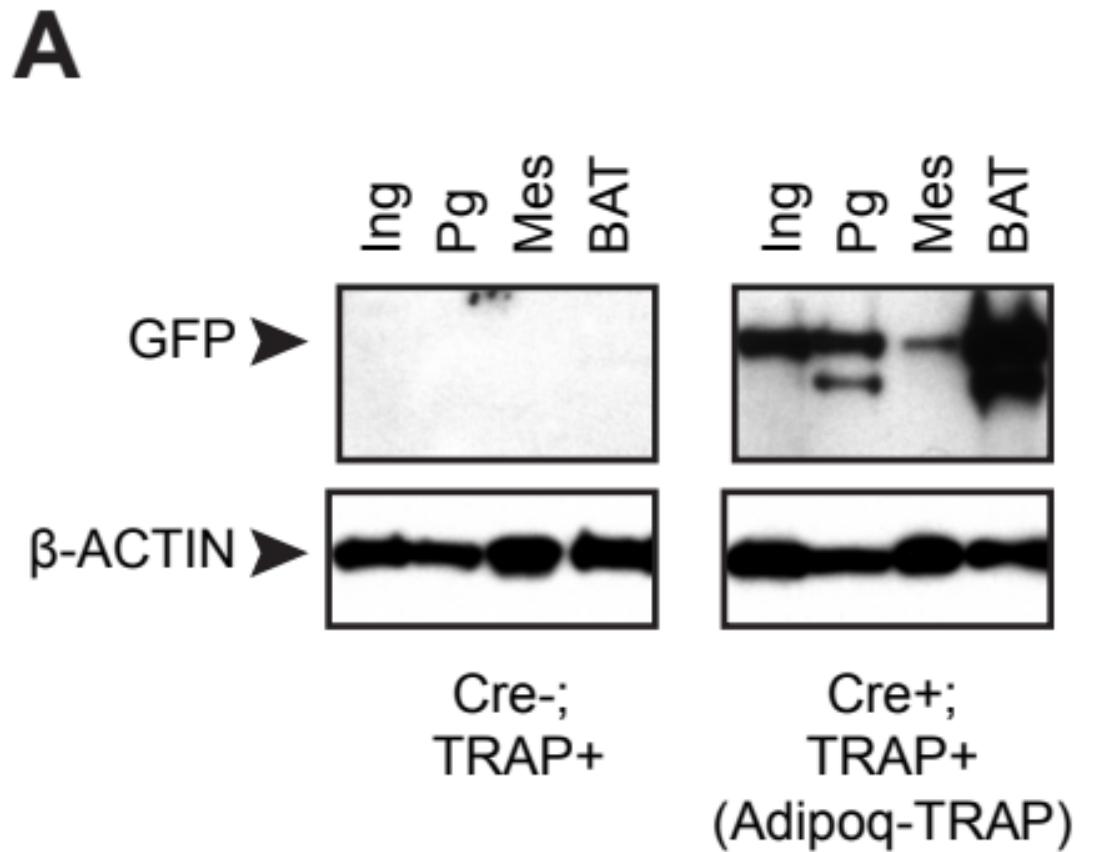
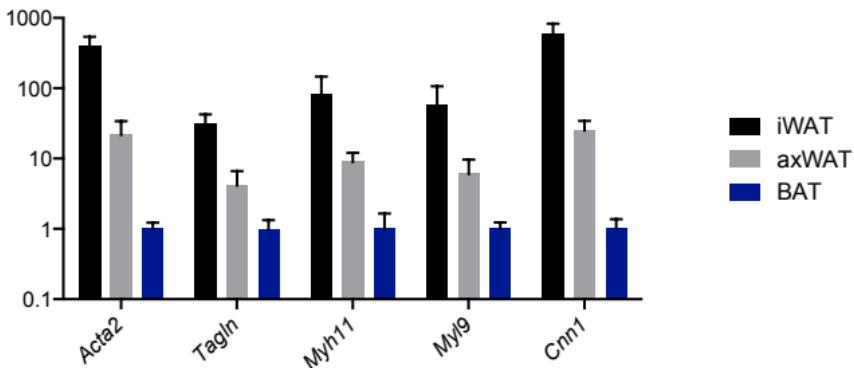


Fig. S5

A



B

	iWAT	pgWAT			BAT			
<i>Csgp4</i>	2.9	3.7	2.0	6.4	4.4	1.7	1.9	1.2
<i>Pdgfrb</i>	0.5	0.5	0.1	0.7	0.4	0.0	0.0	0.3
<i>Pecam1</i>	0.2	1.0	0.2	2.6	0.8	0.7	0.7	0.7
<i>Cdh5</i>	0.6	0.8	0.3	2.1	0.5	0.1	0.0	0.1
<i>Thbd</i>	0.0	0.0	0.0	2.9	0.1	0.2	0.0	0.0
<i>Vwf</i>	0.0	0.2	0.0	0.3	0.2	0.1	0.1	0.1
<i>Acta2</i>	90.0	38.4	25.7	2.2	0.9	0.0	0.0	0.6
<i>Myh11</i>	7.8	5.4	3.0	0.4	0.3	0.1	0.0	0.0
<i>Myl9</i>	9.0	2.6	3.5	1.4	0.4	0.0	0.0	0.0
<i>Cnn1</i>	7.8	3.5	2.9	0.5	0.0	0.0	0.2	0.2
<i>Tagln</i>	21.7	8.8	7.2	1.3	0.8	0.0	0.0	0.0

Fig. S6

