

Supplementary information

Table 1S Primer sets used for RT-PCR

	<i>Forward(5'-3')</i>	<i>Reverse(5'-3')</i>
<i>Osr1</i>	<i>CCATCCCTGCAGCTTACCAA</i>	<i>GCATGAAGAGCGCTGAAACC</i>
<i>Osr1_human</i>	<i>CGTTCTCAGCTGCTCCTGGTT</i>	<i>GTTTTGCTGCCCATTTTCGGTA</i>
<i>Chrebp</i>	<i>CCAGCAGGGAAGGGGATTC</i>	<i>AGAGCTGTTTCGCACCATCG</i>
<i>Scd-1</i>	<i>AACACCCCGATAGCAATATCCA</i>	<i>AGAGAACTGGAGACGGGAGT</i>
<i>Apat1</i>	<i>CTGGTTCGTTTCGGTCCTCA</i>	<i>CCATGAGACCCATCATGTCCA</i>
<i>Tgf-β</i>	<i>TCGCTTTGTACAACAGCACC</i>	<i>ACTGCTTCCCGAATGTCTGA</i>
<i>Fn1</i>	<i>TGCTCGTGAATCCTCTTGAACA</i>	<i>AACCTGTTTCCAATGGGCCT</i>
<i>Il-β</i>	<i>AAATACCTGTGGCCTTGGGC</i>	<i>CTTGGGATCCACACTCTCCAG</i>
<i>Il-6</i>	<i>CCAGAGATACAAAGAAATGATGG</i>	<i>ACTCCAGAAGACCAGAGGAAA</i>
<i>Tnf-α</i>	<i>AGCCGATGGGTTGTACCT-TG</i>	<i>ATAGCAAATCGGCTGACG-GT</i>
<i>Ccl-2</i>	<i>AGCACCAGCCAACTCTCACT</i>	<i>CGTAACTGCATCTGGCTGA</i>
<i>Il-8</i>	<i>ATGCCTCTCCATTTCTGCT</i>	<i>CATGGGGAAAGAGGCTCTGA</i>
<i>Il-10</i>	<i>TGAATTCCCTGGGTGAGAAG</i>	<i>TCACTCTTCACCTGCTCCACT</i>
<i>Bcl-2</i>	<i>GTCGCTACCGTCGTGACTTC</i>	<i>CAGACATGCACCTACCCAGC</i>
<i>Casp3</i>	<i>TGGTGATGAAGGGGTCATTTATG</i>	<i>TTCGGCTTTCCAGTCAGACTC</i>
<i>Bid</i>	<i>GCCGAGCACATCACAGACC</i>	<i>TGGCAATGTTGTGGATGATTTCT</i>
<i>Trp53</i>	<i>CTCTCCCCCGCAAAGAAAAA</i>	<i>CGGAACATCTCGAAGCGTTTA</i>
<i>Casp8</i>	<i>TGCTTGGACTACATCCCACAC</i>	<i>TGCAGTCTAGGAAGTTGACCA</i>
<i>Casp9</i>	<i>TCCTGGTACATCGAGACCTTG</i>	<i>AAGTCCCTTTTCGCAGAAACAG</i>
<i>Bcl-2_human</i>	<i>CTGGTGGGAGCTTGCATCAC</i>	<i>ACAGCCTGCAGCTTTGTTTC</i>
<i>Bid_human</i>	<i>ACTGGTGTTTGGCTTCTCC</i>	<i>ATTCTTCCCAAGCGGGAGTG</i>
<i>Casp8_human</i>	<i>CAGCAAAGGGGAGGAGTT</i>	<i>CTTCAAAGGTCGTGGTCAAA</i>
<i>Atm</i>	<i>GATCTGCTCATTTGCTGCCG</i>	<i>GTGTGGTGGCTGATACATTTGAT</i>

<i>Cdk2</i>	<i>CCTGCTTATCAATGCAGAGGG</i>	<i>TGCGGGTCACCATTTTCAGC</i>
<i>Cdk4</i>	<i>ATGGCTGCCACTCGATATGAA</i>	<i>TCCTCCATTAGGAACTCTCACAC</i>
<i>Cdk6</i>	<i>GGCGTACCCACAGAAACCATA</i>	<i>AGGTAAGGGCCATCTGAAAACCT</i>
<i>Chk1</i>	<i>GTTAAGCCACGAGAATGTAGTGA</i>	<i>GATACTGGATATGGCCTTCCCT</i>
<i>Chk2</i>	<i>TGACAGTGCTTCCTGTTTACA</i>	<i>GAGCTGGACGAACCCTGATA</i>
<i>Pai</i>	<i>TTCAGCCCTTGCTTGCCTC</i>	<i>ACACTTTTACTCCGAAGTCGGT</i>
<i>Pten</i>	<i>TTTGCTAGTGAGTGGAATCCTCT</i>	<i>TGTGACAAAAGTGACACAGATCA</i>
<i>Cip1</i>	<i>CCTGGTGATGTCCGACCTG</i>	<i>CCATGAGCGCATCGCAATC</i>
<i>Cycb1</i>	<i>AAGGTGCCTGTGTGTGAACC</i>	<i>GTCAGCCCCATCATCTGCG</i>
<i>Cycd2</i>	<i>GAGTGGGAACTGGTAGTGTTG</i>	<i>CGCACAGAGCGATGAAGGT</i>

Figure 1S.

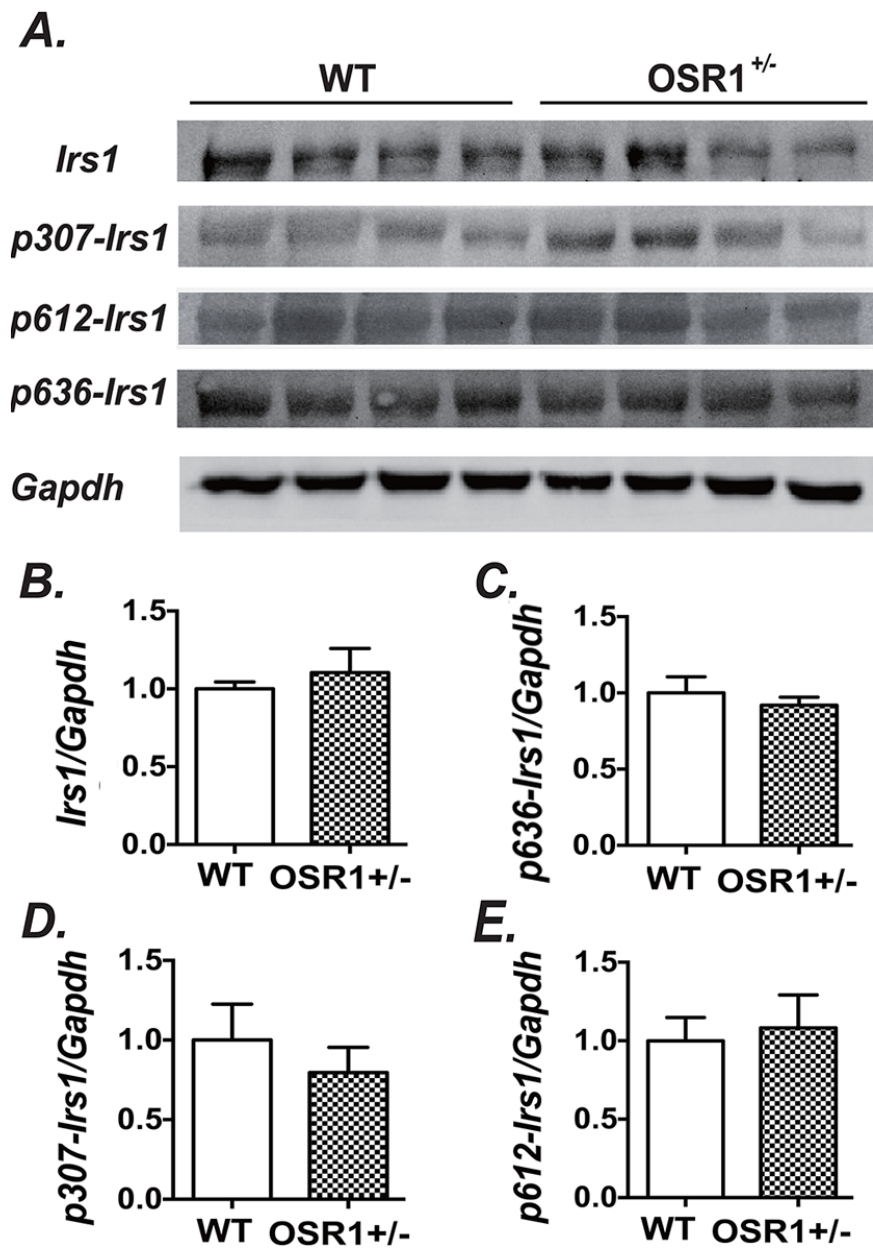


Figure 1S. By protein blotting technique, the insulin signaling genes of *Irs-1* and the phosphorylation of *Irs1* at 307, 612 and 636 were all found to be similar between liver tissues of *Osrl*^{+/-} and wildtype mice.

Data of figures 1S A-E is presented as Mean ± SE, n=4.

Figure 2S.

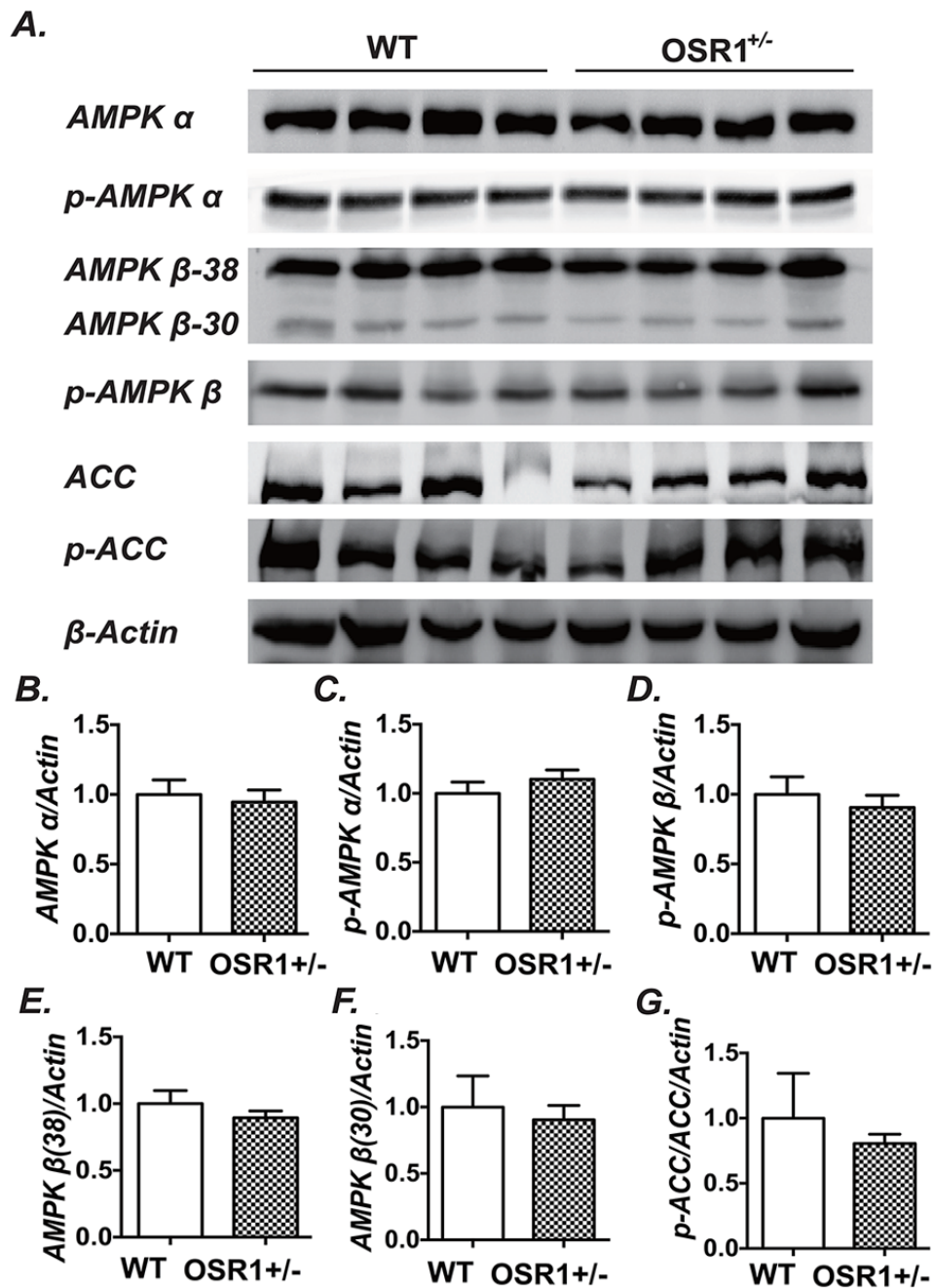


Figure 2S. By protein blotting technique, the genes involved in cellular energy homeostasis, such as *AMPK- α* , *- β* , *Acc* and their phosphorylated forms, displayed similar expression levels between *Osr1*^{+/-} and wildtype livers.

Data of figures 2S A-G is presented as Mean \pm SE, n=4.