

## **Ablation of Selenbp1 alters lipid metabolism via the Ppar $\alpha$ pathway in mouse kidney**

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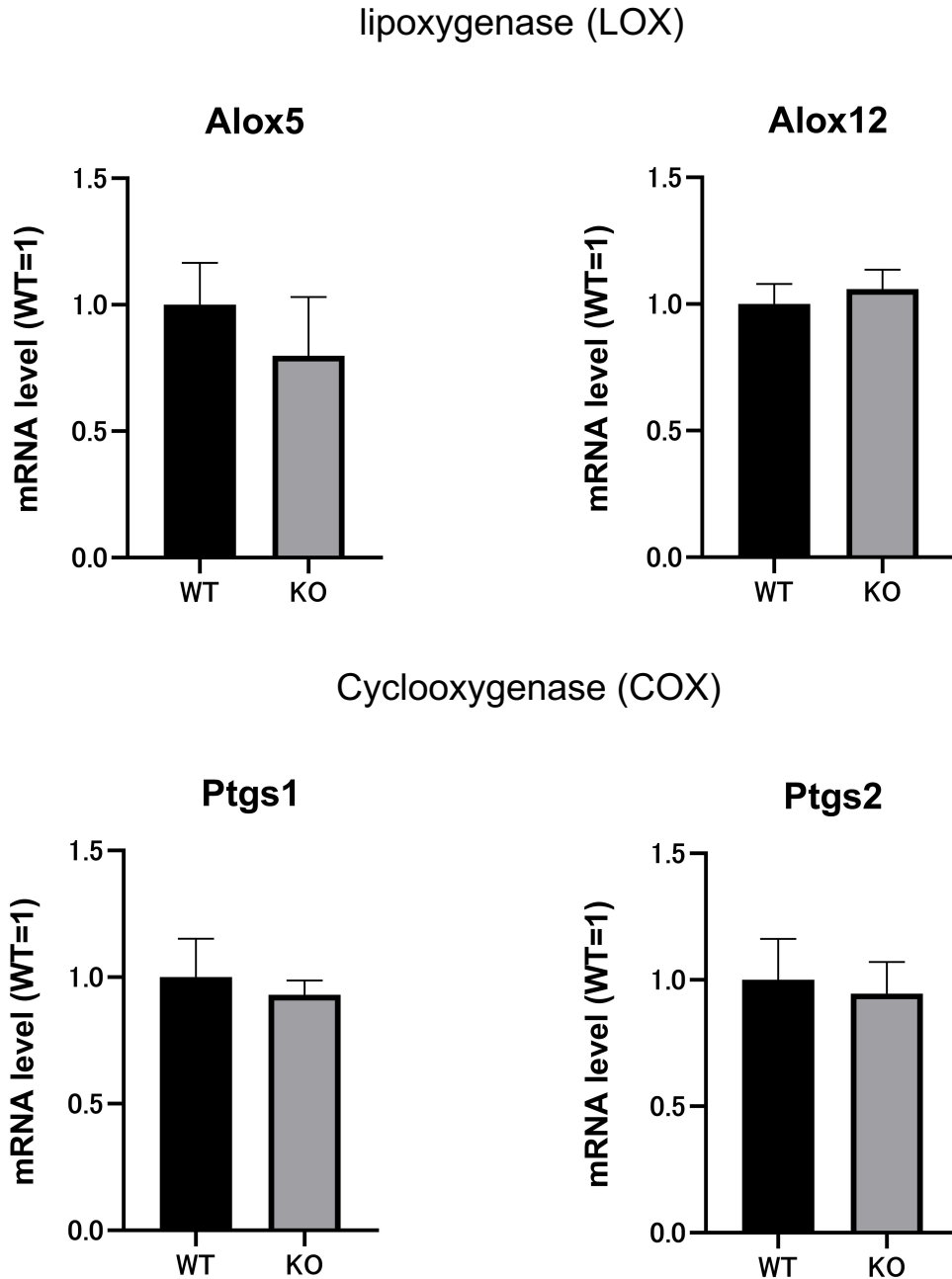
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**Supplementary Table S1**

Primer sequences used for the PCR amplification of mRNAs

Target mRNA (Genebank Accession)	Primer sequence	Product size
Selenbp1 (NM_009150)	Forward: 5'-CTGATACTGCCTGGTCTCA-3' Reverse: 5'-AGTGGCTGGTGTGCAAAC-3'	142 bp
Selenbp2 (NM_019414)	Forward: 5'-CTGATACTGCCTGGTCTCA-3' Reverse: 5'-AGTGGCTGGTGTGCGTAT-3'	142 bp
Ppara (NM_011144)	Forward: 5'-CATCACAGACACCCTCTCTC-3' Reverse: 5'-AAGCCCTTACAGCCTTCAC-3'	174 bp
Pparg (NM_011146)	Forward: 5'-AGACCACTCGCATTCCTTTGAC-3' Reverse: 5'-TTTATCCCCACAGACTCGGCAC-3'	274 bp
Ppard (NM_011145)	Forward: 5'-AACACACGTTTCCTTCCAG-3' Reverse: 5'-GATCGCACTTCTCATACTCG-3'	237 bp
Rxra (NM_011305)	Forward: 5'-CTCCTTCACCAAGCACATC-3' Reverse: 5'-GTCTTTGCGTACTGTCCTC-3'	115 bp
Cyp4a12a: (NM_177406)	Forward: 5'-GACTTCTATCACCTGGAATGAC-3' Reverse: 5'-AGCTCTCTGCTCACACTTG-3'	105 bp
Cyp4a12b (NM_172306)	Forward: 5'-TACTCAGCAGTTCCCATCC-3' Reverse: 5'-TCTCCCCAGAATCAGCTTC-3'	187 bp
Acox3 (NM_030721)	Forward: 5'-GGACAGGACTGGGAATATCAC-3' Reverse: 5'-CAGACATGCTGATGATGGAG-3'	125 bp
Sod1 (NM_011434)	Forward: 5'-ATGGGTTCACGTCCATCAG-3' Reverse: 5'-GTCTCCAACATGCCTCTCTTC-3'	122 bp
Sod2 (NM_013671)	Forward: 5'-ACAACTCAGGTCGCTCTTC-3' Reverse: 5'-ATAGCCTCCAGCAACTCTC-3'	128 bp
$\beta$ -actin (NM_007393)	Forward: 5'-GATTACTGCTCTGGCTCCTA-3' Reverse: 5'-TCCTGCTTGCTGATCCAC-3'	135 bp

## Supplementary Figure S1



**Figure S1. Effect of Selenbp1 ablation on the renal expression involved in the arachidonic acid metabolism related cyclooxygenase (COX) and lipoxygenase (LOX) enzymes.**

The kidneys were collected from 8-week old male mice which treated with 20 h fasting. The relative levels of mRNAs indicated were analysis by real-time RT-PCR and normalized by  $\beta$ -actin mRNA. Each bar represents the mean  $\pm$  S.E.M. of 6 mice.  $\beta$ -actin was used as an internal control. Abbreviations used: Alox, arachidonate lipoxygenase; Ptgs, prostaglandin-endoperoxide synthase.