

SUPPLEMENTARY TABLE S2. THE TOP 20 DIFFERENTIAL UPREGULATED GENES EXPRESSION IN AHR-KO MICE

| Gene | Gene title | Location | Transcript ID | Fold change | P values < |
|---------------|--|------------|---------------|-------------|------------|
| Krtap2-4 | Keratin associated protein 2-4 | chr11D | NM_027800 | 10.32 | 0.00029 |
| Ccd90b | Coiled-coil domain containing 90B, nuclear gene encoding mitochondria | chr7E1 | NM_025515 | 8.96 | 0.00055 |
| Plekkg3 | Pleckstrin homology domain containing, family G (with RhoGef domain) | ch12C3 | NM_153804 | 8.91 | 0.00739 |
| Srpk2 | Serine/arginine-rich protein specific kinase 2 | chr5A3 | NM_009274 | 8.42 | 0.00229 |
| Cxcl9 | Chemokine (C-X-C motif) ligand 9 | chr5E2 | NM_008599 | 8.06 | 0.00222 |
| Hes1 | Hairy and enhancer of split 1 | chr16B2 | NM_008235 | 7.70 | 0.0415 |
| Atp5sl | ATP5S-like | chr7A3 | NM_025504 | 6.37 | 0.00209 |
| Pppde2 | PPPDE peptidase domain containing 2 | chr15E1 | NM_134095 | 6.31 | 0.00939 |
| Uimcl | Ubiquitin interaction motif containing 1 | chr13B2 | NM_011307 | 5.94 | 0.00464 |
| 9530002B09Rik | RIKEN cDNA 950002B09 | chr4D2.2 | NM_023865 | 5.60 | 0.00283 |
| Mir710 | MicroRNA 710 | chr8 | NM_030491 | 5.58 | 0.00634 |
| Pdp1 | Pyruvate dehydrogenase phosphatase catalytic subunit 1 | chr4A1 | NM_001033453 | 5.42 | 0.0393 |
| Rad50 | RAD50 homolog (<i>Saccharomyces cerevisiae</i>) | chr11As-B1 | NM_009012 | 5.27 | 0.00383 |
| Zrb1 | Zinc finger CCHC-type and RNA binding motif 1 | chr15F1 | NM_026025 | 4.57 | 0.00026 |
| Slc25a10 | Solute carrier family 25 (mitochondrial carrier dicarboxylate transporter) | chr11E2 | NM_013770 | 4.32 | 0.00010 |
| Mtor | Mechanistic target of rapamycin (serine/threonine kinase) | chr4E1 | NM_020009 | 3.83 | 0.00244 |
| Mon1a | MON1 homolog A (yeast) | chr9F1 | NM_028369 | 3.69 | 0.00925 |
| Jarid2 | Jumonji, AT rich interactive domain 2, transcript variant 1 | chr13A5 | NM_001205043 | 3.45 | 0.00397 |
| Creb1 | cAMP responsive element binding protein 1, transcript variant A | chr1C2 | NM_133828 | 3.43 | 0.00828 |
| Uqcrc1 | Biquinol-cytochrome c reductase core protein 1 | chr9F2 | NM_025407 | 3.33 | 0.00052 |