**Supplementary Table 2B**

**Significant Changes versus WT mice**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Gel No.** | **Protein Name** | **Functional**  **Categories** | **KO** | **1A0** | **6A2** | **1A0-LE** | **6A4-LE** |
| 1 | 65-kDa macrophage protein | ARC |  |  | **↑** | **↑** |  |
| 2 | Actin related protein 2/3 complex, subunit 5 | ARC |  |  | **↑** |  |  |
| 3 | Actin-related protein 3 | ARC |  |  | **↑** |  |  |
| 4 | Actr2 protein | ARC |  |  |  |  |  |
| 5 | Alpha-fetoprotein | ROI |  |  | **↓** |  |  |
| 6 | Annexin A2 | ARC, ROI |  |  | **↑** |  | **↑** |
| 7 | Annexin A4 | ROI |  |  |  |  |  |
| 8 | Anxa5 protein |  | **↓** |  | **↓** | **↓** | **↓** |
| 9 | ArsA arsenite transporter, ATP-binding, homolog 1 |  |  |  |  |  |  |
| 10 | Atp5b protein |  | **↑** |  | **↑** | **↑** | **↑** |
| 11 | Calpain, small subunit 1 | PBCF |  | **↓** | **↓** | **↓** | **↓** |
| 12 | Capping protein (actin filament) muscle Z-line, alpha 2 | ARC |  |  |  |  |  |
| 13 | Capping protein (actin filament) muscle Z-line, beta isoform a | ARC | **↑** |  | **↑** | **↑** |  |
| 14 | Cathepsin D precursor | PBCF |  |  |  | **↓** | **↓** |
| 15 | Chaperonin subunit 2 (beta) | PBCF |  |  | **↑** | **↑** |  |
| 16 | Chia protein | ROI |  |  |  |  | **↑** |
| 17 | Chitinase 3-like 3 precursor | ROI |  | **↓** |  | **↓** | **↓** |
| 18 | Chitinase-related protein MCRP | ROI |  | **↓** | **↓** | **↓** | **↓** |
| 19 | Chloride intracellular channel 1 | ARC | **↑** |  |  | **↑** |  |
| 20 | Chloride intracellular channel 4 (mitochondrial) | ARC |  |  | **↓** |  |  |
| 21 | CNDP dipeptidase 2 | PBCF |  | **↓** |  |  |  |
| 22 | Coactosin-like 1 | ARC | **↓** |  |  |  |  |
| 23 | EF hand domain containing 2 |  |  |  |  |  |  |
| 24 | Eno1 protein (Alpha-enolase) | PBCF, ROI |  |  |  |  |  |
| 25 | Eukaryotic translation initiation factor 5A | ARC, ROI, RDP |  |  | **↓** |  |  |
| 26 | Ezrin | ARC |  |  | **↑** | **↑** | **↑** |
| 27 | F-actin capping protein alpha-1 subunit | ARC |  |  | **↓** |  | **↓** |
| 28 | Ferritin heavy chain 1 |  |  | **↑** | **↓** | **↑** | **↑** |
| 29 | Ferritin light chain 1 |  | **↑** | **↑** | **↓** | **↑** | **↑** |
| 30 | Gamma-actin | ARC | **↑** |  |  |  |  |
| 31 | Gelsolin precursor | ARC |  | **↓** | **↑** |  |  |
| 32 | Glucose-6-phosphate dehydrogenase X-linked |  |  |  | **↑** | **↑** | **↑** |
| 33 | Guanine deaminase |  |  | **↓** | **↑** |  |  |
| 34 | Heat shock protein 1, beta | ARC, PBCF, ROI |  |  |  | **↑** |  |
| 35 | Heat shock protein 5 precursor | PBCF | **↑** |  | **↓** |  |  |
| 36 | Heat shock protein 65 | PBCF |  |  | **↓** | **↓** | **↓** |
| 37 | Heat shock protein 8 | PBCF |  |  |  | **↑** |  |
| 38 | Heat shock protein 90, beta (Grp94), member 1 | PBCF | **↑** |  | **↑** |  |  |
| 39 | Hematopoietic cell specific Lyn substrate 1 | ARC, ROI |  |  |  |  |  |
| 40 | Heme-binding protein | ROI | **↑** | **↑** | **↑** | **↑** | **↑** |
| 41 | Heterogeneous nuclear ribonucleoprotein K | RDP |  |  | **↑** | **↑** | **↑** |
| 42 | High mobility group 1 protein | RDP, ROI |  |  | **↓** |  |  |
| 43 | Hnrpf protein | RDP |  |  |  | **↑** |  |
| 44 | Kappa-B motif-binding phosphoprotein | RDP |  |  |  |  | **↑** |
| 45 | Keratin complex 2, basic, gene 8 | ARC | **↓** |  | **↓** | **↓** | **↓** |
| 46 | Keratin type II | ARC |  |  |  |  |  |
| 47 | Krt13 protein |  |  | **↓** | **↓** | **↓** | **↓** |
| 48 | Laminin receptor |  |  |  |  |  |  |
| 49 | Major vault protein (MVP) |  | **↑** |  | **↑** | **↑** | **↑** |
| 50 | Microtubule-associated protein, RP/EB family, member 1 | ARC |  |  | **↑** |  | **↑** |
| 51 | Myosin light chain, regulatory B-like | ARC |  |  |  |  |  |
| 52 | Nucleophosmin 1 | RDP | **↑** | **↑** | **↑** | **↑** | **↑** |
| 53 | p50b | RDP |  |  | **↑** | **↓** |  |
| 54 | Peroxiredoxin 2 |  |  |  |  |  |  |
| 55 | Prolyl 4-hydroxylase, beta polypeptide precursor |  | **↑** |  | **↓** |  |  |
| 56 | Proteasome (prosome, macropain) 28 subunit, alpha | PBCF |  | **↓** | **↓** | **↓** | **↓** |
| 57 | Proteasome alpha 1 subunit | PBCF |  | **↑** |  |  |  |
| 58 | Protein disulfide isomerase associated 6 | PBCF |  |  | **↓** |  |  |
| 59 | Protein disulfide-isomerase A3 precursor | PBCF | **↑** |  |  |  |  |
| 60 | Protein synthesis initiation factor 4A | RDP | **↑** |  | **↓** |  |  |
| 61 | Purine nucleoside phosphorylase |  | **↓** | **↓** | **↓** | **↓** | **↓** |
| 62 | Put. beta-actin (aa 27-375) | ARC |  |  |  |  |  |
| 63 | Rab GDP dissociation inhibitor beta | ARC | **↑** |  | **↑** |  |  |
| 64 | Rho GDP dissociation inhibitor (GDI) alpha | ARC |  | **↓** | **↓** | **↓** | **↓** |
| 65 | Rho, GDP dissociation inhibitor (GDI) beta | ARC |  | **↓** | **↓** | **↓** | **↓** |
| 66 | Serine (or cysteine) proteinase inhibitor, clade B, member 1a | PBCF |  | **↓** | **↓** | **↓** | **↓** |
| 67 | Stathmin | ARC | **↓** |  | **↓** |  |  |
| 68 | Superoxide dismutase 1, soluble |  |  |  | **↑** |  |  |
| 69 | Tropomodulin 3 | ARC |  |  |  |  |  |
| 70 | Tropomyosin 3, gamma | ARC |  |  |  |  |  |
| 71 | Tubulin, beta 5 | ARC |  |  |  | **↑** | **↑** |
| 72 | Tyrosine 3/tryptophan 5 -monooxygenase activation protein,  | ROI |  |  |  |  |  |
| 73 | Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein,  | ROI |  |  | **↓** | **↓** | **↓** |
| 74 | Vacuolar adenosine triphosphatase subunit B |  |  |  | **↑** |  |  |
| 75 | Valosin-containing protein | ARC, PBCF | **↑** |  | **↑** | **↑** | **↑** |
| 76 | Vimentin | ARC | **↑** |  | **↑** | **↑** | **↑** |
|  | **Total number of significant changes** |  | **21** | **17** | **47** | **34** | **31** |

List of proteins identified by 2D-DIGE by gel number (see Supplementary Figure 1) and functional protein categories (ARC, actin-related/cytoskeletal; PBCF, protease balance/ chaperone function; ROI, regulation of inflammation; and RDP, regulatory/differentiative processes). Arrows indicate significant changes and the direction of those changes (↑ = KO or hTG is greater than WT; ↓ = KO or hTG is lower than WT).