Supplementary Table 2: DEGs with reversed gene expression trend in M60 and M120 (|FC|>=2, p<0.05)

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| --- | --- | --- | --- | --- | --- | --- |
| No | Transcript ID | Gene  Symbol | Description | Function | FC | |
| M60/C | M120/C |
| 1 | NM\_001034931 | Pkhd1l1 | polycystic kidney and hepatic disease 1-like 1 | Cell projection | -19.13 | -2.44 |
| 2 | NM\_001277394 | Srrm3 | serine/arginine repetitive matrix 3 | NA | -14.19 | -4.95 |
| 3 | NM\_134326 | Alb | albumin | Response to stress, cytolysis, regulation of circadian rhythm | -5.04 | 6.85 |
| 4 | NM\_001134910 | Anxa13 | annexin A13 | Transmembrane signaling receptor activity | -2.08 | 5.69 |
| 5 | NM\_001011908 | Spta1 | spectrin, alpha, erythrocytic 1 | Apoptosis, cell-cell adhesion | 2.21 | -8.44 |
| 6 | NM\_012605 | Mylpf | Myosin light chain, phosphorylatable, fast skeletal muscle | Focal adhesion, regulation of actin cytoskeleton | 3.32 | 2.50 |
| 7 | NM\_012971 | Kcna4 | potassium voltage-gated channel subfamily A member 4 | Cortisol synthesis and secretion, regulation of ion transport | 3.40 | -6.60 |
| 8 | NM\_134377 | Clstn2 | calsyntenin 2 | Cell-cell adhesion, regulation of cell communication | 3.88 | 2.51 |
| 9 | NM\_021767 | Nrxn1 | neurexin 1 | Cell adhesion molecules (CAMs), angiogenesis | 3.90 | -2.63 |
| 10 | NM\_001108242 | Slc9a7 | solute carrier family 9 member A7 | Ion transmembrane transporter activity | 3.95 | 2.44 |
| 11 | NM\_001108245 | Itgb1bp2 | integrin subunit beta 1 binding protein 2 | Integrin-mediated signaling pathway, cell communication | 4.16 | 2.93 |
| 12 | NM\_001160313,  NM\_053909 | Nfasc | neurofascin | Cell adhesion molecules (CAMs), generation of neurons | 4.93 | 3.00 |
| 13 | NM\_019162 | Tac3 | tachykinin 3 | Cell communication and signal trasduction, response to ammonium ion, response to nitrogen compound | 6.79 | 2.27 |
| 14 | NM\_001013202 | Clca2 | chloride channel calcium activated 2 | Renin secretion, anion channel activity | 7.23 | 2.99 |
| 15 | NM\_001006979 | Matn1 | matrilin 1, cartilage matrix protein | cartilage development | 7.24 | 2.42 |
| 16 | NM\_053822 | S100a8 | S100 calcium binding protein A8 | Acute inflammatory response,cell adhesion | 11.19 | 3.51 |
| 17 | NM\_001013429 | Cldn14 | claudin 14 | Cell adhesion molecules (CAMs), tight junction | 11.96 | 4.78 |
| 18 | NM\_001301664,  NM\_133517 | Atp12a | ATPase H+/K+ transporting non-gastric alpha2 subunit | Oxidative phosphorylation, regulation of pH | 14.56 | 4.57 |
| 19 | NM\_001191101 | Hfm1 | HFM1, ATP-dependent DNA helicase homolog | cell cycle, meiotic nuclear division | 18.28 | 4.41 |