### SUPPLEMENTARY TABLE 2. Top 75 upregulated genes in microarray analysis.

| Gene Symbol | Ratio   | P-value     | Gene Description                               |
|-------------|---------|-------------|-----------------------------------------------|
| MYLK        | 12.9501 | 0.01972     | myosin light chain kinase                      |
| GCLC        | 8.1532  | 0.03745     | glutamate-cysteine ligase, catalytic subunit   |
| IL33        | 6.6172  | 0.04737     | interleukin 33                                 |
| AKR1C3      | 4.8196  | 0.03844     | aldo-keto reductase family 1, member C3        |
| TFRC        | 4.7127  | 0.00005     | transferrin receptor                           |
| PPP2R2B     | 4.57    | 0.00605     | protein phosphatase 2, regulatory subunit B, beta |
| ETS2        | 4.3672  | 0.03941     | v-ets avian erythroblastosis virus E26 oncogene homolog 2 |
| SAA1        | 4.308   | 0.01106     | serum amyloid A1                               |
| AKR1C1      | 3.98    | 0.04965     | aldo-keto reductase family 1, member C1        |
| SAA2        | 3.8837  | 0.01195     | serum amyloid A2                               |
| SOD2        | 3.7841  | 0.03126     | superoxide dismutase 2, mitochondrial          |
| PRRG4       | 3.6732  | 0.02507     | proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane) |
| SERPINB3    | 3.6636  | 0.00605     | serpin peptidase inhibitor, clade B (ovalbumin), member 3 |
| TMEM117     | 3.6578  | 0.00291     | transmembrane protein 117                     |
| CCL20       | 3.5799  | 0.00139     | chemokine (C-C motif) ligand 20                |
| SATL1       | 3.5222  | 0.00825     | spermidine/spermine N1-acetyl transferase-like 1 |
| MTUS1       | 3.467   | 0.00053     | microtubule-associated tumor suppressor 1      |
| KCNK10      | 3.4614  | 0.01905     | potassium channel, two pore domain subfamily K, member 10 |
| SERPINB4    | 3.399   | 0.00146     | serpin peptidase inhibitor, clade B (ovalbumin), member 4 |
| PALMD       | 3.2654  | 0.01397     | palmdelphin                                   |
| Gene Symbol | Fold Change | P-value | Description |
|-------------|-------------|---------|-------------|
| HSPB1       | 3.1603      | 0.01541 | heat shock 27 kDa protein 1 |
| FABP5       | 3.0902      | 0.04746 | fatty acid binding protein 5 (psoriasis-associated) |
| FBXO33      | 3.0515      | 0.0152  | F-box protein 33 |
| SESN1       | 2.972       | 0.00206 | sestrin 1 |
| GBP1        | 2.853       | 0.02152 | guanylate binding protein 1, interferon-inducible |
| DSC3        | 2.8437      | 0.03378 | desmocollin 3 |
| BTG2        | 2.8178      | 0.04646 | BTG family, member 2 |
| TNFSF10     | 2.7982      | 0.04818 | tumor necrosis factor (ligand) superfamily, member 10 |
| VWA9        | 2.7819      | 0.00042 | von Willebrand factor A domain-containing 9 |
| Stonin 2    | 2.7817      | 0.00046 | stonin 2 |
| BMP2K       | 2.714       | 0.00557 | BMP2 inducible kinase |
| NTN4        | 2.6493      | 0.01716 | netrin 4 |
| UBE2D1      | 2.5971      | 0.00062 | ubiquitin-conjugating enzyme E2D 1 |
| CARS2       | 2.5807      | 0.00109 | cysteinyl-tRNA synthetase 2, mitochondrial (putative) |
| TMTC1       | 2.5604      | 0.0022  | transmembrane and tetratricopeptide repeat containing 1 |
| CA2         | 2.5135      | 0.03113 | carbonic anhydrase II |
| SKAP2       | 2.5021      | 0.01466 | src kinase-associated phosphoprotein 2 |
| YBX3        | 2.4731      | 0.01318 | Y box binding protein 3 |
| PRKAB2      | 2.4618      | 0.01406 | protein kinase, AMP-activated, beta 2 non-catalytic subunit |
| NAB1        | 2.4426      | 0.01258 | NGFI-A binding protein 1 |
| NFKBIA      | 2.4283      | 0.04856 | nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha |
| KANK4       | 2.4235      | 0.03607 | KN motif and ankyrin repeat domains 4 |
| CYP1A1      | 2.3907      | 0.04358 | cytochrome P450, family 1, subfamily A, polypeptide 1 |
| Gene   | Log2 Fold Change | p-value  |
|--------|-----------------|----------|
| EFNA5  | 2.3456          | 0.03414  |
| IL36G  | 2.3168          | 0.03462  |
| PAMR1  | 2.2968          | 0.03713  |
| FDXR   | 2.2353          | 0.0432   |
| RPS6KA5| 2.2282          | 0.01667  |
| COL1A1 | 2.2037          | 0.00435  |
| ACER2  | 2.1992          | 0.00876  |
| ST13   | 2.1904          | 0.0012   |
| VSNL1  | 2.1739          | 0.02962  |
| SEPW1  | 2.1694          | 0.02028  |
| VPS26B | 2.1529          | 0.00161  |
| TCP10L2| 2.1453          | 0.01372  |
| SATB1  | 2.1438          | 0.03775  |
| SPRYD4 | 2.1386          | 0.02228  |
| KCNAB2 | 2.1055          | 0.00978  |
| RNF128 | 2.0956          | 0.03017  |
| XPR1   | 2.0912          | 0.03464  |
| SLC19A2| 2.0877          | 0.01439  |
| AHR    | 2.0775          | 0.00639  |
| FAM8A1 | 2.0758          | 0.03181  |
| CA12   | 2.0725          | 0.01321  |
| SSBP2  | 2.0623          | 0.03544  |

- **EFNA5**: ephrin-A5
- **IL36G**: interleukin 36, gamma
- **PAMR1**: peptidase domain-containing associated with muscle regeneration 1
- **FDXR**: ferredoxin reductase
- **RPS6KA5**: ribosomal protein S6 kinase, 90 kDa, polypeptide 5
- **COL1A1**: Jeck2013 ANTISENSE, coding, INTERNAL, intronic best transcript NM_000088
- **ACER2**: alkaline ceramidase 2
- **ST13**: suppression of tumorigenicity 13 (colon carcinoma) (Hsp70-interacting protein)
- **VSNL1**: visinin-like 1
- **SEPW1**: selenoprotein W, 1
- **VPS26B**: VPS26 retromer complex component B
- **TCP10L2**: t-complex 10-like 2
- **SATB1**: SATB homeobox 1
- **SPRYD4**: SPRY domain-containing 4
- **KCNAB2**: potassium channel, voltage-gated subfamily A regulatory beta subunit 2
- **RNF128**: ring finger protein 128, E3 ubiquitin protein ligase
- **XPR1**: xenotropic and polytropic retrovirus receptor 1
- **SLC19A2**: solute carrier family 19 (thiamine transporter), member 2
- **AHR**: aryl hydrocarbon receptor
- **FAM8A1**: family with sequence similarity 8, member A1
- **CA12**: carbonic anhydrase XII
- **SSBP2**: single-stranded DNA binding protein 2
| Gene   | Fold Change | p-Value  | Description                                                  |
|--------|-------------|----------|--------------------------------------------------------------|
| TSHZ2  | 2.0623      | 0.0128   | Teashirt zinc finger homeobox 2                              |
| WIPI1  | 2.0534      | 0.01921  | WD repeat domain, phosphoinositide-interacting 1            |
| OR3A3  | 2.0524      | 0.03036  | Olfactory receptor, family 3, subfamily A, member 3         |
| PIK3IP1| 2.0496      | 0.01751  | Phosphoinositide-3-kinase-interacting protein 1             |
| STOM   | 2.0462      | 0.00524  | Stomatine                                                    |
| OR5AL1 | 2.0341      | 0.01094  | Olfactory receptor, family 5, subfamily AL, member 1        |
| ZNF608 | 2.0316      | 0.00792  | Zinc finger protein 608                                     |
| GOPC   | 2.0294      | 0.01245  | Golgi-associated PDZ and coiled-coil motif-containing        |
| IFNGR1 | 2.0171      | 0.02831  | Interferon gamma receptor 1                                 |
| SETD7  | 2.0003      | 0.01215  | SET domain-containing (lysine methyltransferase) 7          |