### SUPPLEMENTARY TABLES

**Supplementary Table 1. The expression profile of 52 Robust DEGs.**

| Gene   | P.Value       | Freq | Condition |
|--------|---------------|------|-----------|
| MMP9   | 5.69E-06      | 3    | Up        |
| ACP5   | 0.000024      | 3    | Up        |
| CTSTK  | 6.32E-05      | 3    | Up        |
| TRAF1  | 0.00779       | 3    | Up        |
| GSTT1  | 0.003896      | 3    | Up        |
| CCR1   | 0.003896      | 2    | Up        |
| IL15   | 0.007207      | 2    | Up        |
| CCL12  | 0.008563      | 1    | Up        |
| VEGFC  | 0.013889      | 3    | Up        |
| BPNT1  | 0.01711       | 1    | Up        |
| SAA3   | 0.01711       | 1    | Up        |
| IL6    | 0.018235      | 2    | Up        |
| SCIN   | 0.018342      | 3    | Up        |
| SLC9B2 | 0.01899       | 2    | Up        |
| FPR1   | 0.025641      | 1    | Up        |
| OSCAR  | 0.025641      | 1    | Up        |
| SLC6A8 | 0.02645       | 2    | Up        |
| CHCHD10| 0.030144      | 2    | Up        |
| SERPINB2| 0.034155     | 1    | Up        |
| SLC6A4 | 0.034155      | 1    | Up        |
| MYCL   | 0.039296      | 2    | Up        |
| PACRG  | 0.041486      | 2    | Up        |
| SELP   | 0.042653      | 2    | Up        |
| MARCO  | 0.042653      | 1    | Up        |
| CCL5   | 0.044876      | 2    | Up        |
| RNASE4 | 0.001033      | 2    | Down      |
| LSP1   | 0.005672      | 3    | Down      |
| DAB2   | 0.007035      | 2    | Down      |
| PROS1  | 0.00796       | 3    | Down      |
| RASGRP3| 0.009164      | 2    | Down      |
| LY86   | 0.009434      | 3    | Down      |
| HPGD   | 0.009934      | 2    | Down      |
| MS4A6B | 0.011566      | 2    | Down      |
| IFIT1  | 0.012081      | 1    | Down      |
| KLKB11 | 0.012081      | 1    | Down      |
| IGHM   | 0.012081      | 1    | Down      |
| MAFB   | 0.015191      | 3    | Down      |
| MS4A6C | 0.015191      | 2    | Down      |
| GPR65  | 0.022679      | 2    | Down      |
| CFH    | 0.023615      | 3    | Down      |
| SLC7A7 | 0.024129      | 1    | Down      |
| P2RY6  | 0.024129      | 1    | Down      |
| IRF8   | 0.027602      | 2    | Down      |
| ITGAM  | 0.028905      | 2    | Down      |
| DYNLT1B| 0.036144      | 1    | Down      |
Supplementary Table 2. The expression profile of 77 common targets among three datasets.

| Gene       | GSE21639 | GSE54779 | GSE74847 | Mean logfc | Gene Feature |
|------------|----------|----------|----------|------------|--------------|
| CD38       | /        | 4.72915  | /        | 4.72915    | Up           |
| MMP9       | 3.89517  | 3.92673  | 6.17478  | 4.66556    | Up           |
| RORC       | /        | /        | 3.88164  | 3.88164    | Up           |
| CCR1       | 2.46905  | /        | 5.10388  | 3.78647    | Up           |
| MET        | /        | 3.39635  | /        | 3.39635    | Up           |
| SELP       | 1.41663  | /        | 5.30075  | 3.35869    | Up           |
| SLC7A11    | /        | 3.09128  | /        | 3.09128    | Up           |
| IL1B       | /        | 2.69341  | /        | 2.69341    | Up           |
| IL6        | 2.07554  | 3.06137  | /        | 2.56846    | Up           |
| HPGD       | /        | −2.22487 | −2.80545 | −2.51516   | Down         |
| PTGS1      | /        | /        | −2.48925 | −2.48925   | Down         |
| MST1R      | 1.14386  | /        | 3.63957  | 2.39171    | Up           |
| ALOX5      | /        | /        | −2.30180 | −2.30180   | Down         |
| PTAFR      | /        | /        | −2.27864 | −2.27864   | Down         |
| ALOX5AP    | /        | /        | −2.24446 | −2.24446   | Down         |
| CYSLTR1    | /        | /        | −2.19371 | −2.19371   | Down         |
| PTGES      | /        | 2.19322  | /        | 2.19322    | Up           |
| ABCG2      | 2.11812  | /        | /        | 2.11812    | Up           |
| GPR55      | /        | /        | 2.04992  | 2.04992    | Up           |
| LGALS9     | −2.20479 | /        | −1.81709 | −2.01094   | Down         |
| PAWR       | 1.99516  | /        | /        | 1.99516    | Up           |
| ALB        | 1.98913  | /        | /        | 1.98913    | Up           |
| PLA2G2A    | 1.98572  | /        | /        | 1.98572    | Up           |
| RPS6KB2    | −1.97837 | /        | /        | −1.97837   | Down         |
| PPARG      | /        | −1.88844 | /        | −1.88844   | Down         |
| PFKFB3     | /        | 1.78137  | /        | 1.78137    | Up           |
| PTGER4     | −1.75368 | /        | /        | −1.75368   | Down         |
| OGFRL1     | /        | /        | −1.72803 | −1.72803   | Down         |
| NOS2       | /        | /        | 1.67172  | 1.67172    | Up           |
| RARB       | /        | /        | 1.64799  | 1.64799    | Up           |
| SCN9A      | 1.64047  | /        | /        | 1.64047    | Up           |
| NQO1       | /        | −1.63444 | /        | −1.63444   | Down         |
| F10        | /        | 1.61736  | /        | 1.61736    | Up           |
| KDM5B      | /        | /        | 1.61537  | 1.61537    | Up           |
| KCNA3      | /        | /        | −1.59066 | −1.59066   | Down         |
| NR1H3      | /        | 1.53253  | /        | 1.53253    | Up           |
| FABP4      | /        | 1.51528  | /        | 1.51528    | Up           |
| CCND1      | /        | 1.50698  | /        | 1.50698    | Up           |
| KDM5A      | 1.48772  | /        | /        | 1.48772    | Up           |
| Gene   | Fold Change 1 | Fold Change 2 | Fold Change 3 | Change |
|--------|---------------|---------------|---------------|--------|
| FABP5  | 1.46628       | /             | 1.46628       | Up     |
| IL6ST  | −1.45754      | /             | −1.45754      | Down   |
| HSD11B1| 1.45338       | /             | 1.45338       | Up     |
| ODC1   | 1.44912       | /             | 1.44912       | Up     |
| PPARD  | 1.44155       | /             | 1.44155       | Up     |
| DHFR   | 1.38862       | /             | 1.38862       | Up     |
| FABP1  | −1.38055      | /             | −1.38055      | Down   |
| PLK3   | /             | 1.35433       | /             | Up     |
| CDC25A | /             | 1.34483       | /             | Up     |
| SERPINE1| 1.33711      | /             | 1.33711       | Up     |
| PIK3CB | /             | /             | 1.29386       | Up     |
| SLC16A3| 1.28471       | /             | 1.28471       | Up     |
| IGFBP4 | /             | /             | −1.28140      | Down   |
| ADORA2A| /             | 1.27297       | /             | Up     |
| HBEGF  | /             | /             | 1.26051       | Up     |
| MPO    | /             | 1.25160       | /             | Up     |
| CHEK1  | /             | 1.24099       | /             | Up     |
| IL10   | /             | 1.23120       | /             | Up     |
| P4HA1  | /             | 1.22795       | /             | Up     |
| EDNRB  | /             | −1.20335      | /             | Down   |
| PTGIR  | /             | /             | −1.19760      | Down   |
| DHCR7  | /             | /             | −1.14070      | Down   |
| NDUFC2 | 1.13906       | /             | 1.13906       | Up     |
| HSPD1  | /             | 1.12305       | /             | Up     |
| CXCR3  | /             | −1.11033      | /             | Down   |
| PTPRC  | −1.10211      | /             | −1.10211      | Down   |
| HIF1A  | /             | 1.09087       | /             | Up     |
| PIK3CG | /             | /             | −1.08327      | Down   |
| IGFBP1 | −1.08243      | /             | −1.08243      | Down   |
| CYCS   | /             | 1.07060       | /             | Up     |
| RXRG   | −1.06722      | /             | −1.06722      | Down   |
| ALDH2  | /             | −1.05327      | /             | Down   |
| ERAP1  | /             | /             | −1.02507      | Down   |
| FOS    | /             | /             | 1.01127       | Up     |
| RXRA   | /             | /             | −1.00292      | Down   |
| PDCD4  | /             | −2.02460      | 1.64341       | Down   |
| PTGS2  | −1.08952      | 2.57901       | −1.12126      | Up     |
| BCL2L1 | −1.03134      | 1.07730       | /             | Up     |