**Table S1. Patient characteristics.**

|  |  |
| --- | --- |
| **Variables** | **NO. of cases**  **N=108** |
| **Survival time (months)** | 61.35±14.04 |
| **Age at diagnosis, y** |  |
| **＜35** | 17 |
| **35-64** | 68 |
| **≥65** | 23 |
| **Histology** |  |
| **Ductal carcinoma** | 95 |
| **Lobular carcinoma** | 3 |
| **Other** | 10 |
| **Grade** |  |
| **Well** | 26 |
| **Moderately** | 75 |
| **Poorly** | 17 |
| **Tumor size(cm)** |  |
| **≤ 2** | 28 |
| **> 2** | 73 |
| **ER** |  |
| **Negative** | 56 |
| **Positive** | 52 |
| **PR** |  |
| **Negative** | 60 |
| **Positive** | 48 |
| **HER2** |  |
| **Negative** | 91 |
| **Positive** | 17 |
| **Ki67** |  |
| **< 14 %** | 18 |
| **≥ 14 %** | 90 |
| **CD36** |  |
| **Negative** | 77 |
| **Positive** | 31 |
| **FATP1** |  |
| **Negative** | 27 |
| **Positive** | 81 |
| **Recurrence** |  |
| **Yes** | 31 |
| **No** | 77 |

**Table S2. Antibody information**

|  |  |  |
| --- | --- | --- |
| Name | Company | NO. |
| CD36 | Santa Cruz | sc-7309 |
| UCP3 | Biorbyt | orb48572 |
| UCP1 | Abcam | ab155117 |
| FATP1 | Abcam | ab81875 |
| PPARγ | Cell Signaling Technology | 2443 |
| p-PPARγ | Bioss Antibodies | bs-4888R |
| P38 | Cell Signaling Technology | 8690 |
| p-P38 | Cell Signaling Technology | 4511 |
| ERK1/2 | Cell Signaling Technology | 4695 |
| p-ERK1/2 | Cell Signaling Technology | 9101 |
| Tubulin | Cell Signaling Technology | 2148 |
| HSP70 | Affinity Biosciences | DF2305 |
| TSG101 | Affinity Biosciences | DF2306 |
| CD63 | Affinity Biosciences | DF8427 |
| CD81 | Affinity Biosciences | DF6085 |

**Table S3. The primers sequences of miRNA.**

|  |  |  |
| --- | --- | --- |
| Name | Forward sequences | Reverse sequences |
| Mature miR-155 | GGGTTAATGCTAATTGTG | AACTGGTGTCGTGGAGTCGGC |
| Pre miR-155 | CTGTAATGCTAATTGTGA | CTGTTAATGCTAACAGG |
| U6 | CTCGCTTCGGCAGCACATATACT | ACGCTTCACGAATTTGCGTGTC |

**Table S4. The sequences of plasmids and lentiviruses.**

|  |  |
| --- | --- |
| Name | Sequences ( (5 ’→ 3’) |
| miR-155 inhibitor | UUAAUGCUAAUCGUGAUAGGGGU |
| pre-miR-155 | CUGUUAAUGCUAAUCGUGAUAGGGGUUUUUGCCUCCAACUGACUCCUACAUAUUAGCAUUAACAG |
| PPARγwt | TTGTACTAGCAGAGAGTCCTGAGCCACTGCCAACATTTCCCTTCTTCCAGTTGCACTATTCTGAGGGAAAATCTGACACCTAAGAAATTTACTGTGAAAAAGCATTTTAAAAAGAAAAGGTTTTAGAATATGATCTATTTTATGCATATTGTTTATAAAGACACATTTACAATTTACTTTTAATATTAAAAATTACCATATTATGAA |
| PPARγmt | TTGTACTAGCAGAGAGTCCTGAGCCACTGCCAACATTTCCCTTCTTCCAGTTGCACTATTCTGAGGGAAAATCTGACACCTAAGAAATTTACTGTGAAAACTACGGTTAAAAAGAAAAGGTTTTAGAATATGATCTATTTTATGCATATTGTTTATAAAGACACATTTACAATTTACTTTTAATATTAAAAATTACCATATTATGAA |