Table1: Gene expression of significant differentially expressed genes in human adipose tissue (N=63) and in mouse epididymal *vs.* inguinal cell line adipogenesis.

|  |  |  |
| --- | --- | --- |
| expression in mouse cell lines  (gene symbol top hits) | expression in human AT | |
|  | vis AT | sc AT |
| *Alx1* | ↓ | ↑ |
| *Ptn* | ↑ | ↓ |
| *Epha3* | = | = |
| *Dkk2* | ↓ | ↑ |
| *Gatm* | ↑ | ↓ |
| *Negr1* | = | = |
| ***Cd36*** | **↓** | **↑** |
| ***Apod*** | **↓** | **↑** |
| *Tbx5* | ↓ | ↑ |
| *Hoxc10* | ↓ | ↑ |
| ***Hoxa5*** | **↑** | **↓** |
| *Irx1* | = | = |
| *Ace* | ↓ | ↑ |
| *Dlk1* | = | = |
| *Adh7* | = | = |
| *Irx2* | ↓ | ↑ |
| ***Arhgdib*** | **=** | **=** |
| *Mmp2* | ↓ | ↑ |
| *Hoxa10* | ↓ | ↑ |
| ***Cidec*** | **↓** | **↑** |
| *Eif2s3y* | = | = |
| *Oas2* | ↓ | ↑ |
| *Tbx15* | ↓ | ↑ |
| *Gm24598* | no orthologues/ not on gene chip | |
| *NONMMUT00716[3-5]* | no orthologues/ not on gene chip | |
| *NONMMUT01574[5-7]* | no orthologues/ not on gene chip | |
| *9930111J21Rik1* | no orthologues/ not on gene chip | |
| *9930111J21Rik2* | no orthologues/ not on gene chip | |
| *Gm4955* | no orthologues/ not on gene chip | |
| *Tgtp2* | no orthologues/ not on gene chip | |
| *KnowTID\_00007994* | no orthologues/ not on gene chip | |
| *Tnfrsf26* | no orthologues/ not on gene chip | |
| *Lhx8* | not expressed | |
| *Gbp6* | not expressed | |

In bold: genes that are high expressed in subcutaneous and/or visceral human adipose tissue (>1000AU).

In grey highlighted genes present different direction of expression in mouse (epididymal/inguinal) *vs*. humans (visceral/subcutaneous).