**Table S7.** **Sexual dimorphism of adipose tissue gene expression in 515 obese individuals**

|  |  |  |  |
| --- | --- | --- | --- |
| **Symbol** | **Ratio Men/Women\*** | **Cytoband** | **Biological Function** |
| *PGM1* | 0.67 | 1p31 | carbohydrate metabolism |
| *CDKN2C* | 0.42 | 1p32 | cell cycle |
| ***C1QC*** | **0.68** | **1p36.11** | **immune response** |
| *C1QA* | 0.66 | 1p36.12 | immune response |
| ***C1QB*** | **0.68** | **1p36.12** | **immune response** |
| *MECR* | 0.64 | 1p36.1-p35.1 | lipid metabolism |
| *ENO1* | 0.78 | 1p36.3-p36.2 | carbohydrate metabolism |
| ***FCGR2B*** | **0.70** | **1q23** | **immune response** |
| *PRDX6* | 0.77 | 1q25.1 | response to stress |
| ***IL10*** | **0.82** | **1q31-q32** | **immune response** |
| *CST3* | 0.83 | 20p11.21 | protein metabolism |
| ***CTSZ*** | **0.86** | **20q13** | **protein metabolism** |
| *PCK1* | 0.59 | 20q13.31 | carbohydrate metabolism |
| *CSTB* | 0.78 | 21q22.3 | protein metabolism |
| *TPST2* | 0.72 | 22q12.1 | protein metabolism |
| ***INHBB*** | **0.82** | **2cen-q13** | **secreted factor** |
| *IDH1* | 0.71 | 2q33.3 | energy metabolism |
| *PECR* | 0.74 | 2q35 | lipid metabolism |
| *IRS1* | 0.58 | 2q36 | signal transduction |
| *SLC19A3* | 0.64 | 2q37 | transport |
| *ABHD5* | 0.75 | 3p21 | lipid metabolism |
| *GPD1L* | 0.76 | 3p22.3 | lipid metabolism |
| *OXSR1* | 0.82 | 3p22-p21.3 | response to stress |
| ***ITGB5*** | **0.82** | **3q21.2** | **immune response** |
| *ACAD9* | 0.75 | 3q21.3 | lipid metabolism |
| *RPN1* | 0.85 | 3q21.3 | lipid metabolism |
| *AP2M1* | 0.79 | 3q28 | signal transduction |
| *SLC4A4* | 0.54 | 4q21 | transport |
| *SFRP2* | 0.51 | 4q31.3 | cell differenciation |
| *ETFDH* | 0.77 | 4q32-q35 | energy metabolism |
| *ACSL1* | 0.70 | 4q34-q35 | lipid metabolism |
| *THBS4* | 0.57 | 5q13 | immune response |
| *COX7C* | 0.72 | 5q14 | energy metabolism |
| *ATOX1* | 0.76 | 5q32 | response to stress |
| ***CSF1R*** | **0.74** | **5q33-q35** | **immune response** |
| *VEGFA* | 0.75 | 6p12 | secreted factor |
| *ELOVL5* | 0.75 | 6p21.1-p12.1 | lipid metabolism |
| *AGPAT1* | 0.84 | 6p21.3 | lipid metabolism |
| ***ECHDC1*** | **0.74** | **6q22.33** | **lipid metabolism** |
| *CYCS* | 0.68 | 7p15.3 | energy metabolism |
| *RAC1* | 0.87 | 7p22 | immune response |
| *PRKAR2B* | 0.81 | 7q22 | signal transduction |
| *AZGP1* | 0.31 | 7q22.1 | secreted factor |
| *LEP* | 0.57 | 7q31.3 | secreted factor |
| *MEST* | 0.78 | 7q32 | cell differenciation |
| *EN2* | 0.61 | 7q36 | transcription |
| *LOXL2* | 0.83 | 8p21.3-p21.2 | cell adhesion |
| *ADHFE1* | 0.84 | 8q13.1 | ketone metabolism |
| *RDH10* | 0.57 | 8q21.11 | lipid metabolism |
| ***BAALC*** | **0.75** | **8q22.3** | **unknown** |
| *AQP7* | 0.75 | 9p13 | lipid metabolism |
| *CCL19* | 1.49 | 9p13 | immune response |
| *ALDOB* | 0.59 | 9q21.3-q22.2 | carbohydrate metabolism |
| *HSDL2* | 0.69 | 9q32 | lipid metabolism |
| ***MRC1L1*** | **0.74** | **10p12.33** | **immune response** |
| *PHYH* | 0.75 | 10p13 | lipid metabolism |
| *ECHDC3* | 0.68 | 10p14 | lipid metabolism |
| *SIRT1* | 0.84 | 10q21.3 | translation |
| *NDUFB8* | 0.80 | 10q23.2-q23.33 | energy metabolism |
| *SCD* | 0.53 | 10q24.31 | lipid metabolism |
| *PGAM1* | 0.80 | 10q25.3 | carbohydrate metabolism |
| *SAA4* | 0.31 | 11p15.1-p14 | immune response |
| *LDHA* | 0.70 | 11p15.4 | carbohydrate metabolism |
| *PNPLA2* | 0.76 | 11p15.5 | lipid metabolism |
| ***MS4A4A*** | **0.78** | **11q12** | **immune response** |
| ***MS4A6A*** | **0.81** | **11q12.1** | **immune response** |
| ***CCND1*** | **0.76** | **11q13** | **cell cycle** |
| *DGAT2* | 0.64 | 11q13.5 | lipid metabolism |
| *THRSP* | 0.63 | 11q13.5 | lipid metabolism |
| *TMEM135* | 0.77 | 11q14.2 | unknown |
| *ACAT1* | 0.66 | 11q22.3-q23.1 | lipid metabolism |
| ***GAPDH*** | **0.88** | **12p13** | **carbohydrate metabolism** |
| *TPI1* | 0.81 | 12p13 | carbohydrate metabolism |
| ***CD163*** | 0.78 | 12p13.3 | immune response |
| *CD163L1* | 0.65 | 12p13.3 | immune response |
| *NDUFA9* | 0.77 | 12p13.3 | energy metabolism |
| ***C3AR1*** | **0.83** | **12p13.31** | **immune response** |
| *IGF1* | 0.57 | 12q22-q23 | secreted factor |
| *PWP1* | 0.81 | 12q23.3 | transcription |
| *CDK2AP1* | 0.82 | 12q24.31 | cell cycle |
| *GPR109A* | 0.62 | 12q24.31 | lipid metabolism |
| *PCCA* | 0.71 | 13q32 | lipid metabolism |
| *NPAS3* | 0.85 | 14q12-q13 | transcription |
| *CKB* | 0.52 | 14q32 | energy metabolism |
| *EHD4* | 0.84 | 15q11.1 | signal transduction |
| *GATM* | 0.84 | 15q21.1 | energy metabolism |
| *ETFA* | 0.72 | 15q23-q25 | energy metabolism |
| *LOXL1* | 0.70 | 15q24-q25 | cell adhesion |
| *UQCRC2* | 0.72 | 16p12 | energy metabolism |
| *CARHSP1* | 0.81 | 16p13.2 | translation |
| *DCI* | 0.71 | 16p13.3 | lipid metabolism |
| *MT1E* | 0.77 | 16q13 | response to stress |
| *CES1* | 0.47 | 16q13-q22.1 | cell differenciation |
| *SLC2A4* | 0.53 | 17p13 | carbohydrate metabolism |
| ***CLEC10A*** | **0.70** | **17p13.1** | **immune response** |
| *ACOX1* | 0.74 | 17q24-q25 | lipid metabolism |
| *ATP5A1* | 0.73 | 18q12-q21 | energy metabolism |
| ***CD209*** | **0.88** | **19p13** | **immune response** |
| *DNASE2* | 0.81 | 19p13.2 | apoptosis |
| *AES* | 0.80 | 19p13.3 | transcription |
| ***POP4*** | **0.81** | **19q12** | **transport** |
| *LIPE* | 0.78 | 19q13.2 | lipid metabolism |
| *FCGRT* | 0.81 | 19q13.3 | immune response |
| *GYS1* | 0.66 | 19q13.3 | carbohydrate metabolism |
| *PFKFB1* | 0.70 | Xp11.21 | carbohydrate metabolism |
| *PDHA1* | 0.68 | Xp22.2-p22.1 | carbohydrate metabolism |
| *PGK1* | 0.79 | Xq13 | carbohydrate metabolism |
| ***SH3BGRL*** | **0.86** | **Xq13.3** | **unknown** |
| *TCEAL8* | 0.85 | Xq22.1 | transcription |