

**ESM Table 1.** Assay details for real-time PCR and differences in gene expression between obese white and black women.

Gene	Forward Primer	Reverse Primer	Obese white	Obese black	p value	p adjust FMI
Insulin receptor substrate 1 (IRS1)	agagcatgcacaaacgcttctcg	gtcagcccgttgtgatgtgaa	1.19 ± 0.08	1.20 ± 0.05	0.757	0.423
Glucose transporter 4 (GLUT4)	tcttcacctggctctcggtgtgt	cacgaagccaaagatggccacaat	1.15 ± 0.04	1.15 ± 0.05	0.635	0.749
Vesicle associated membrane protein (VAMP)	tgccactaacaatctcagtccgt	aggccagtcacattctgttctcca	1.10 ± 0.07	1.11 ± 0.04	0.719	0.378
Syntaxin 4 (STX4)	aatgcagtccgaataccgggagaa	agcatctgctccaactcctcatca	1.08 ± 0.07	1.09 ± 0.04	0.669	0.386
Stearoyl-CoA desaturase 1 (SCD1)	aaacctggcttgctgatgatgtgc	tcgcaagaaagtggaacgaacac	1.18 ± 0.07	1.17 ± 0.05	0.765	0.897
Peroxisome proliferator-activated receptor gamma coactivator 1-alpha (PGC1)	agacagcttctgggtggactcaa	tcagcgcataaatgagggaatc	1.06 ± 0.05	1.07 ± 0.04	0.525	0.366
β2 microglobulin (B2M)	agcgtactccaaagattcaggtt	atgatgctgcttacatgtctcgat				

Values are mean ± standard deviation.