

Table S1. Distribution of allelic frequencies for *ACSM4* and *PECI* in healthy control and HIV infected patients.

| Gene | SNPs | Allele | Healthy control | HIV patients | p-value |
|--------------|-----------|------------|-----------------|--------------|---------|
| <i>ACSM4</i> | rs7137120 | A (n= 243) | 61 (20%) | 182 (20%) | 0.993 |
| | | G (n= 973) | 247 (80%) | 726 (80%) | |
| | rs7961991 | C (n= 250) | 62 (20%) | 188 (21%) | 0.959 |
| | | T (n= 960) | 242 (80%) | 718 (79%) | |
| <i>PECI</i> | rs584585 | A (n= 428) | 117 (38%) | 311 (34%) | 0.264 |
| | | G (n= 788) | 191(62%) | 597 (66%) | |
| | rs629362 | C (n= 429) | 117 (38%) | 312 (34%) | 0.279 |
| | | T (n= 787) | 191 (62%) | 596 (66%) | |

Abbreviations: *ACSM4*, acyl-CoA synthetase medium chain family member 4; *PECI*; peroxisomal 3,2-trans-enoyl-CoA isomerase;. SNP, single nucleotide polymorphism.

Table S2. Distribution of *ACSM4* and *PECI* genotypes in healthy control and HIV infected patients.

| Gene | SNPs | Genotype | Healthy control | HIV patients | p-value |
|--------------|-----------|-------------|-----------------|--------------|---------|
| <i>ACSM4</i> | rs7137120 | AA (n= 21) | 5 (3.2%) | 16 (3.5%) | 0.987 |
| | | AG (n= 201) | 51 (33.1%) | 150 (33.0%) | |
| | | GG (n= 386) | 98 (63.6%) | 288 (63.4%) | |
| | rs7961991 | CC (n= 25) | 6 (3.9%) | 19 (4.2%) | 0.989 |
| | | CT (n= 200) | 50 (32.9%) | 150 (33.1%) | |
| | | TT (n= 380) | 96 (63.2%) | 284 (62.7%) | |
| <i>PECI</i> | rs584585 | AA (n= 72) | 21 (13.6%) | 51 (11.2%) | 0.485 |
| | | AG (n= 284) | 75 (48.7%) | 209 (46.0%) | |
| | | GG (n= 252) | 58 (37.7%) | 194 (42.7%) | |
| | rs629362 | CC (n= 73) | 21 (13.6%) | 52 (11.5%) | 0.503 |
| | | CT (n= 283) | 75 (48.7%) | 208 (45.8%) | |
| | | TT (n= 252) | 58 (37.7%) | 194 (42.7%) | |

Abbreviations: *ACSM4*, acyl-CoA synthetase medium chain family member 4; *PECI*; peroxisomal 3,2-trans-enoyl-CoA isomerase; SNP, single nucleotide polymorphism.

Table S3. Distribution of *ACSM4* and *PECI*/haplotypes in healthy control and HIV infected patients.

| Gene | SNP ₁ | SNP ₂ | Healthy control | HIV patients | p-value |
|--------------|------------------|------------------|-----------------|--------------|---------|
| <i>ACSM4</i> | rs7137120 | rs7961991 | | | |
| | G | T | 79.8% | 79.1% | |
| | A | C | 19.8% | 19.9% | 0.950 |
| <i>PECI</i> | rs584585 | rs629362 | | | |
| | G | T | 62.0% | 65.6% | |
| | A | C | 37.9% | 34.2% | 0.230 |

Abbreviations: *ACSM4*, acyl-CoA synthetase medium chain family member 4; *PECI*; peroxisomal 3,2-trans-enoyl-CoA isomerase; SNP, single nucleotide polymorphism.