# Table S1.  Power for Primary Endpoint in INVEST-GENES

| MAF | Mode | RR | Alpha | Alpha |
|-----|------|-----|-------|-------|
|     |      |     | **0.05** | **0.007** |
|     |      |     | **Predicted Power** | |
| 0.1 | A | 1.25 | 0.30 | 0.10 |
|     | A | 1.50 | 0.76 | 0.47 |
|     | A | >1.75 | **0.97** | **0.85** |
| 0.2 | A | 1.25 | 0.47 | 0.20 |
|     | A | 1.5 | **0.92** | 0.75 |
|     | A | >1.75 | **0.99** | **0.97** |
| 0.3 | A | 1.25 | 0.55 | 0.27 |
|     | A | 1.50 | **0.96** | **0.83** |
|     | A | >1.75 | **0.99** | **0.99** |
| 0.4 | A | 1.25 | 0.59 | 0.30 |
|     | A | 1.50 | **0.96** | **0.85** |
|     | A | >1.75 | **0.99** | **0.99** |
| 0.1 | D | 1.25 | 0.25 | 0.08 |
|     | D | 1.50 | 0.68 | 0.38 |
|     | D | >1.75 | **0.93** | 0.75 |
| 0.2 | D | 1.25 | 0.33 | 0.12 |
|     | D | 1.5 | 0.79 | 0.52 |
|     | D | >1.75 | **0.97** | **0.87** |
| 0.3 | D | 1.25 | 0.32 | 0.11 |
|     | D | 1.50 | 0.76 | 0.49 |
|     | D | >1.75 | **0.95** | **0.82** |
| 0.4 | D | 1.25 | 0.27 | 0.09 |
|     | D | 1.50 | 0.66 | 0.37 |
|     | D | >1.75 | **0.89** | 0.68 |

MAF, minor allele frequency; A, additive mode of inheritance; D, dominant mode of inheritance, RR, relative risk.

Table S2. LXRA gene (*NR1H3*) Diplotypes frequencies in INVEST-GENES case control data set

| Diplotype | rs11039149 (A>G) rs12221497 (G>A) rs2279238 (C>T) | Diplotype frequency N (%) |
|---|---|---|
| D1 | AGC/AGC | 231 (21.8) |
| D2 | AGC/AGT | 206 (19.5) |
| D3 | AGC/GGC | 203 (19.2) |
| D4 | AGC/AAC | 104 (9.8) |
| D5 | AGT/GGC | 86 (8.1) |
| D6 | AAC/GGC | 65 (6.1) |
| D7 | GGC/GGC | 62(5.9) |
| D8 | AGT/AGT | 60 (5.7) |
| D9 | AGT/AAC | 34 (3.2) |
| D10 | AGT/AGC | 3 (<1) |
| D11 | AAC/AAC | 2 (<1) |
| D12 | AGC/GAC | 1 (<1) |
| D13 | AGT/GGT | 1 (<1) |
| D14 | AGT/AAT | 1(<1) |

Figure S1. Adjusted odds ratios for primary outcome based on common diplotypes in Non-Blacks
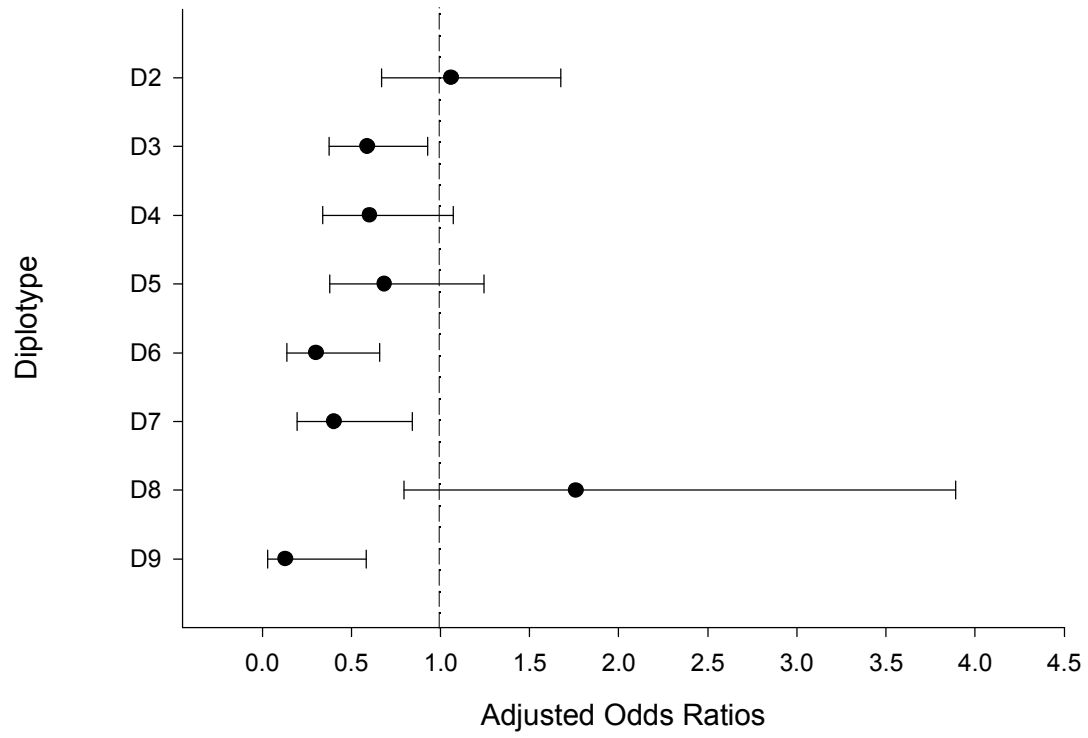
Figure S1.  The reference diplotype is D1, which contains wild type alleles for the three independently significant SNPs (See Table S1).  Primary outcomes are a composite of the first occurrence of all-cause death, nonfatal MI or nonfatal stroke. Odds Ratios (OR) from logistic regression adjusted for: age, sex, race/ethnicity, BMI, INVEST treatment strategy, history of CHF, history of MI and history of diabetes at baseline.