

Table S1. Estimated common haplotype frequencies of *RAC1* gene in T2D patients with and without DNF

| SNPs | rs4724800 | rs7784465 | rs10951982 | rs10238136 | rs836478 | rs9374 | T2D patients | | OR (95% CI) ² | P ³ (Q) |
|--------------------------------------------|-----------|-----------|------------|------------|----------|--------|----------------------------------|----------|--------------------------|--------------------|
| | | | | | | | Without DNF | With DNF | | |
| | | | | | | | Haplotype frequency ¹ | | | |
| H | | | | | | | | | | |
| Entire group | | | | | | | | | | |
| Global haplotype association p-value: 0.73 | | | | | | | | | | |
| H1 | A | T | G | A | C | G | 0.4824 | 0.4744 | 1.00 | --- |
| H2 | A | C | G | A | T | G | 0.1697 | 0.1852 | 1.09 (0.86 - 1.37) | 0.48 (0.79) |
| H3 | G | T | A | A | T | A | 0.1654 | 0.1816 | 1.17 (0.92 - 1.47) | 0.20 (0.73) |
| H4 | A | T | G | A | T | G | 0.0800 | 0.0664 | 0.93 (0.66 - 1.32) | 0.70 (1.0) |
| H5 | G | T | G | A | C | G | 0.0217 | 0.0256 | 1.30 (0.75 - 2.27) | 0.35 (0.79) |
| H6 | G | T | A | A | C | A | 0.0247 | 0.0167 | 0.70 (0.36 - 1.36) | 0.29 (0.79) |
| H7 | A | T | G | T | T | G | 0.0184 | 0.0156 | 1.01 (0.51 - 1.98) | 0.98 (1.0) |
| rare | * | * | * | * | * | * | 0.0106 | 0.0047 | 0.94 (0.57 - 1.57) | 0.83 (1.0) |
| Males | | | | | | | | | | |
| Global haplotype association p-value: 0.21 | | | | | | | | | | |
| H1 | A | T | G | A | C | G | 0.4838 | 0.4312 | 1.00 | --- |
| H2 | A | C | G | A | T | G | 0.1487 | 0.1920 | 1.53 (0.95 - 2.46) | 0.078 (0.73) |
| H3 | G | T | A | A | T | A | 0.1736 | 0.1808 | 1.17 (0.76 - 1.83) | 0.48 (0.79) |
| H4 | A | T | G | A | T | G | 0.0836 | 0.1143 | 1.59 (0.91 - 2.76) | 0.10 (0.73) |
| H5 | G | T | G | A | C | G | 0.0240 | 0.0068 | 0.59 (0.13 - 2.68) | 0.50 (0.79) |
| H6 | G | T | A | A | C | A | 0.0216 | 0.0221 | 1.07 (0.34 - 3.40) | 0.91 (1.0) |
| H7 | A | T | G | T | T | G | 0.0238 | 0.0297 | 1.38 (0.54 - 3.53) | 0.50 (0.79) |
| H8 | A | C | G | A | C | G | 0.0154 | NA | 0.00 (-Inf - Inf) | 1 (1.0) |
| rare | * | * | * | * | * | * | 0.0049 | 0 | 0.85 (0.24 - 3.04) | 0.8 (1.0) |
| Females | | | | | | | | | | |
| Global haplotype association p-value: 0.25 | | | | | | | | | | |
| H1 | A | T | G | A | C | G | 0.4811 | 0.4858 | 1.00 | --- |
| H2 | A | C | G | A | T | G | 0.1854 | 0.1837 | 0.98 (0.75 - 1.27) | 0.88 (1.0) |
| H3 | G | T | A | A | T | A | 0.1591 | 0.1819 | 1.14 (0.87 - 1.51) | 0.34 (0.79) |
| H4 | A | T | G | A | T | G | 0.0777 | 0.0547 | 0.71 (0.46 - 1.08) | 0.11 (0.73) |
| H5 | G | T | G | A | C | G | 0.0199 | 0.0285 | 1.54 (0.79 - 2.99) | 0.20 (0.73) |
| H6 | G | T | A | A | C | A | 0.0272 | 0.0152 | 0.57 (0.26 - 1.24) | 0.15 (0.73) |
| H7 | A | T | G | T | T | G | 0.0147 | 0.0122 | 0.72 (0.30 - 1.73) | 0.46 (0.79) |
| rare | * | * | * | * | * | * | 0.0072 | 0.0057 | 1.08 (0.61 - 1.92) | 0.79 (1.0) |

¹Rare haplotypes with frequency < 0.01 are not shown.

²Odds ratio with 95% confidence intervals adjusted for age, sex and BMI (codominant genetic model).

³Significance level adjusted for age, sex and BMI.

Bold is statistically significant P- and Q-values. H - haplotype