

Table S4: Results of the GWAS and meta-analysis for allergic rhinitis among subjects without asthma

| SNP | Location | Allele | P value | | | | OR (95% CI) | | | | Allele Frequency | | |
|------------|----------|--------|-------------------|----------|------------------|-----------------|---------------------|---------------------|---------------------|---------------------|-------------------|--------|------------------|
| | | | European American | Latino | African American | Meta - Analysis | European American | Latino | African American | Meta - Analysis | European American | Latino | African American |
| rs17152484 | 5q23.2 | C | 4.08E-07 | 0.56 | 0.32 | 1.17E-05 | 0.46 (0.15-0.76) | 0.90 (0.53-1.22) | 0.69 (0.00-1.43) | 0.61 (0.38-0.83) | 0.84 | 0.84 | 0.93 |
| rs12520745 | 5q23.2 | T | 6.20E-07 | 0.63 | 0.94 | 1.26E-04 | 0.47 (0.18-0.77) | 0.92 (0.55-1.27) | 0.98 (0.47-1.49) | 0.66 (0.54-0.82) | 0.83 | 0.83 | 0.86 |
| rs2606618 | 6q22.31 | T | 0.0011 | 0.0038 | 0.0080 | 3.87E-07 | 1.60 (1.32-1.88) | 1.53 (1.24-2.58) | 1.77 (1.25-2.20) | 1.60 (1.33-1.92) | 0.17 | 0.40 | 0.21 |
| rs7780001 | 7p21.1 | A | 0.023 | 1.71E-04 | 0.0048 | 3.75E-07 | 0.70 (0.39-1.01) | 0.55 (0.24-0.63) | 0.55 (0.14-0.97) | 0.61 (0.41-0.80) | 0.87 | 0.80 | 0.76 |
| rs2823048 | 21q21.1 | A | 8.19E-07 | 0.78 | 0.71 | 2.16E-04 | 0.52 (0.26-0.78) | 1.06 (0.67-1.51) | 0.92 (0.48-1.36) | 0.69 (0.50-0.89) | 0.81 | 0.88 | 0.81 |
| rs2823053 | 21q21.1 | A | 8.39E-07 | 0.99 | 0.66 | 3.00E-04 | 0.51 (0.23-0.78) | 1.00 (0.62-1.41) | 0.93 (0.58-1.27) | 0.71 (0.52-0.90) | 0.82 | 0.84 | 0.55 |
| rs2834629 | 21q22.12 | T | 0.93 | 0.92 | 5.24E-07 | 0.0057 | 1.03 (0.47-1.59) | 0.96 (0.17-0.73) | 0.17 (0.00-0.86) | 0.58 (0.40-0.86) | 0.91 | 0.92 | 0.88 |