Shicheng’s Genetic Research in Marashfield Clinic

NOCH4 chr6:32,206,021-32,291,856

A set of oligonucleotide probes was used to capture the ∼5-Mbp MHC region from sheared genomic DNA libraries. The targeted region is located at Chromosome 6p21 and encompasses all genes from GPX5 to ZBTB9 (Fig. 1A)

GPX5 chr6:28,601,768-28,609,923

ZBTB9 chr6:33,469,263-33,472,209

In a simulation study,

Kruglyak (1999) found that LD was unlikely to extend

beyond an average of 3 kb in general populations and

in most isolated populations, so that >=500,000 SNPs

would be required for whole-genome association studies.

On the other hand, Reich et al. (2001) showed that

LD in a U.S. population of northern European descent

could extend 60 kb for common alleles, so that only

50,000 SNPs would be needed in these populations.