|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Gene** | **Gene Name** | **RS ID** | **cDNA**  **Location** | **Genomic**  **Location** | **Exon** | **Protein effect** | **Global**  **Minor allele**  **frequency** |
| NOD2 | Nucleotide-binding Oligomerization Domain containing 2 | rs2066842 | c.802C>T | 16:50710713 | 4 | Pro268Ser | 0.10 |
| NOD2 | Nucleotide-binding Oligomerization Domain containing 2 | rs2066844 | c.2104C>T | 16:50712015 | 4 | Arg702Trp | 0.01 |
| IL23R | Interleukin 23 Receptor | rs76418789 | c.562G>A | 1:67182913 | 4 | Gly149Arg | 0.01 |
| IL23R | Interleukin 23 Receptor | rs11209026 | c.1259G>A | 1:67240275 | 9 | Arg381Gln | 0.02 |

**Supplementary Table S1: Characteristics of nonsynonymous SNPs screened in IBD patients.**