Supplemental table 2: Description of candidate genes related to COVID-19 pathogenesis

| Gene | SNP site | Gene locus (GRCH38.12p) | Location | Major allele | Minor allele | Minor allele frequency* |
|---|---|---|---|---|---|---|
| Viral entry | | | | | | |
| *ACEI* | Alu repeat Insertion/Deletion [13] | chr17q21 Intron16 | Intron | I | D | - |
| *ACE2* | rs2074192 [14] | chr10:15564667 | Intron | C | T | 0.43 |
| *ACE2* | rs4646174 [14] | chr10:15570148 | Intron | C | G | 0.04 |
| *ACE2* | rs2285666 [15] | chr10:15592225 | Intron | C | T | 0.46 |
| *MBL* | rs1800450 [16,17] | chr10:52771475 | Promoter | C | T | 0.15 |
| *MBL* | rs7096206 [16,17] | chr10:52771925 | Promoter | G | C | 0.19 |
| *MBL* | rs11003125 [16,17] | chr10:52772254 | Promoter | G | C | 0.45 |
| Regulation of viral replication | | | | | | |
| *OAS1* | rs1131454 [18] | chr12:112911065 | Exon | A | G | 0.41 |
| *OAS1* | rs2660 [18,19] | chr12:112919637 | Exon | A | G | 0.26 |
| *OAS1* | rs10774671 [20] | chr12:112919388 | Splice acceptor site | A | G | 0.26 |
| *Mx1* | rs17000900 [21] | chr21:41426103 | Promoter | C | A | 0.15 |
| *Mx1* | rs2071430 [21] | chr21:41426138 | Promoter | G | T | 0.30 |
| Innate immune modification | | | | | | |
| *AHSG* | rs2248690 [22] | chr3:186612299 | Promoter | A | T | 0.16 |
| *CD209* | rs4804803 [23] | chr19:7747847 | Promoter | A | G | 0.07 |
| *CCL5* | rs2280788 [24] | chr17:35880401 | Promoter | C | G | 0.10 |
| Regulatory cytokines | | | | | | |
| *HMGB1* | rs1360485 [25] | chr13:30457747 | 3' UTR | G | A | 0.26 |
| *HMGB1* | rs1045411 [25-27] | chr13:30459095 | 3' UTR | C | T | 0.23 |
| *HMGB1* | rs2249825 [26, 27] | chr13:30463766 | Intron | G | C | 0.17 |
| *HMGB1* | rs1412125 [26, 27] | chr13:30467458 | Intron | T | C | 0.31 |
| *IL-10* | rs3024496 [28] | chr1:206768519 | 3' UTR | A | G | 0.03 |
| *IL-10* | rs1800872 [29] | chr1:206773062 | 2KB Upstream | T | G | 0.32 |
| Effector cytokines | | | | | | |
| *TNFα* | rs1799964 [30] | chr6:31574531 | Promoter | T | C | 0.20 |
| *TNFα* | rs1799724 [31] | chr6:31574705 | Promoter | C | T | 0.13 |
| *TNFα* | rs1800629 [32,33] | chr6:31575254 | Promoter | G | A | 0.06 |
| *TNFα* | rs361525 [33] | chr6:31575324 | Promoter | G | A | 0.03 |
| *IL-6* | rs1800797 [29] | chr7:22726602 | Intron | G | A | 0.001 |
| *IL-6* | rs1800795 [34] | chr7:22727026 | Intron | G | C | 0.001 |
| *IL-6* | rs1818879 [35] | chr7:22733108 | 3' UTR | G | A | 0.21 |
| *IL-8* | rs4073 [36] | chr4:73740307 | Upstream | A | T | 0.41 |
| *IL-8* | rs2227307 [36] | chr4:73740952 | Intron | T | G | 0.41 |
| *IL-8* | rs2227306 [36] | chr4:73741338 | Intron | C | T | 0.34 |
| *IL-1B* | rs1143634 [37] | chr2:112832813 | Promoter | G | A | 0.02 |
| *IL-1B* | rs1143627 [38] | chr2:112836810 | 5' UTR | A | G | 0.48 |
| *IL-1B* | rs16944 [38] | chr2:112837290 | Promoter | G | A | 0.47 |

* Data from Genome 1000 data base (East Asian)
The number in the brackets indicate reference number in manuscript