**Supplementary Table 6:** Summary of single nucleotide polymorphism (SNP) distributed among chromosome.

| Type | Count | Percent |
|---|---|---|
| DOWNSTREAM | 559,790 | 11.66% |
| EXON | 129,224 | 2.69% |
| INTERGENIC | 3,149,494 | 65.59% |
| INTRON | 251,782 | 5.24% |
| SPLICE_SITE_ACCEPTOR | 546 | 0.01% |
| SPLICE_SITE_DONOR | 324 | 0.01% |
| SPLICE_SITE_REGION | 7,586 | 0.16% |
| UPSTREAM | 658,859 | 13.72% |
| UTR_3_PRIME | 18,420 | 0.38% |
| UTR_5_PRIME | 25,750 | 0.54% |