**Supplementary Table 1.** Low-coverage regions in the 193 causative genes of heritable eye disorders.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Genes known to cause CD or CRD | | | | | | | |
| Chr | Start | End | Gene | Median Coverage | | GC% | Duplication |
| chr17 | 6459704 | 6459726 | *PITPNM3* | 0 | | 72.7 | - |
| chr2 | 182521495 | 182521733 | *CERKL* | 3 | | 72.3 | - |
| chr4 | 16000007 | 16000111 | *PROM1* | 3 | | 33.7 | - |
| chr4 | 16040568 | 16040624 | *PROM1* | 0 | | 28.6 | - |
| chr8 | 38883321 | 38883403 | *ADAM9* | 4 | | 48.8 | - |
| chrX | 38144792 | 38146498 | *RPGR* | 0 | | 53 | CT-rich |
| chrX | 38150211 | 38150277 | *RPGR* | 0 | | 33.3 | - |
| Genes known to cause other retinal diseases or optic nerve diseases | | | | | | | |
| Chr | Start | End | Gene | Median  Coverage | | GC% | Duplication |
| chr1 | 103400004 | 103400112 | *COL11A1* | | 0 | 56.5 | - |
| chr1 | 103461419 | 103461464 | *COL11A1* | | 0 | 48.9 | - |
| chr1 | 196716240 | 196716443 | *CFH* | | 0 | 39.4 | chr1:196796319  -196825045 |
| chr10 | 55949123 | 55949144 | *PCDH15* | | 0 | 57.1 | - |
| chr10 | 55996582 | 55996691 | *PCDH15* | | 3 | 46.8 | - |
| chr11 | 17526193 | 17526244 | *USH1C* | | 0 | 45.1 | - |
| chr11 | 68080182 | 68080273 | *LRP5* | | 0 | 81.3 | chr22:25781345  -25810481 |
| chr12 | 88456468 | 88456555 | *CEP290* | | 4 | 37.9 | - |
| chr12 | 88465557 | 88465703 | *CEP290* | | 2 | 34.2 | - |
| chr12 | 88510809 | 88510922 | *CEP290* | | 0 | 34.5 | - |
| chr12 | 88524941 | 88524995 | *CEP290* | | 4 | 38.9 | - |
| chr13 | 48954188 | 48954220 | *RB1* | | 3 | 28.1 | - |
| chr16 | 1411743 | 1411798 | *GNPTG* | | 2 | 61.8 | - |
| chr16 | 16297266 | 16297470 | *ABCC6* | | 0 | 56.4 | chr16:18475280  -18607611 |
| chr16 | 16306041 | 16306103 | *ABCC6* | | 0 | 61.3 | chr16:18475280  -18607611 |
| chr16 | 16308180 | 16308306 | *ABCC6* | | 0 | 61.9 | chr16:18475280  -18607611 |
| chr16 | 16313410 | 16313539 | *ABCC6* | | 0 | 55.8 | chr16:18475280  -18607611 |
| chr16 | 16313678 | 16313804 | *ABCC6* | | 0 | 54.8 | chr16:18475280  -18607611 |
| chr16 | 16315424 | 16315688 | *ABCC6* | | 2 | 60.6 | chr16:18475280  -18607611 |
| chr16 | 16317255 | 16317291 | *ABCC6* | | 0 | 80.6 | chr16:18475280  -18607611 |
| chr16 | 68679538 | 68679653 | *CDH3* | | 3 | 72.2 | - |
| chr17 | 58232674 | 58232728 | *CA4* | | 0 | 57.4 | - |
| chr2 | 56097854 | 56098050 | *EFEMP1* | | 0 | 43.9 | - |
| chr2 | 63380048 | 63380080 | *WDPCP* | | 0 | 53.1 | - |
| chr3 | 63898274 | 63898599 | *ATXN7* | | 2 | 76 | GC-rich |
| chr3 | 97499002 | 97499064 | *ARL6* | | 0 | 35.5 | - |
| chr3 | 97510614 | 97510670 | *ARL6* | | 1 | 46.4 | - |
| chr5 | 89971896 | 89972026 | *GPR98* | | 1 | 31.5 | - |
| chr6 | 70965039 | 70965093 | *COL9A1* | | 0 | 55.6 | - |
| chr6 | 70983749 | 70983785 | *COL9A1* | | 0 | 58.3 | - |
| chr7 | 33392470 | 33392485 | *BBS9* | | 3 | 40 | - |
| chrX | 32398626 | 32398797 | *DMD* | | 2 | 41.5 | - |
| chrX | 153409757 | 153409869 | *OPN1LW* | | 0 | 60.7 | - |
| chrX | 153418412 | 153418581 | *OPN1LW* | | 2 | 57.4 | - |
| chrX | 153420048 | 153420214 | *OPN1LW* | | 0 | 59.6 | - |
| chrX | 153421768 | 153422008 | *OPN1LW* | | 0 | 54.2 | - |
| chrX | 153424290 | 153424401 | *OPN1LW* | | 0 | 52.3 | - |
| chrX | 153448166 | 153448278 | *OPN1MW2* | | 0 | 60.7 | chrX:153481277 -153519082 |
| chrX | 153455542 | 153455711 | *OPN1MW2* | | 0 | 56.8 | chrX:153481277 -153519082 |
| chrX | 153457178 | 153457344 | *OPN1MW2* | | 0 | 60.8 | chrX:153481277 -153519082 |
| chrX | 153458898 | 153459138 | *OPN1MW2* | | 0 | 55 | chrX:153481277 -153519082 |
| chrX | 153461420 | 153461531 | *OPN1MW2* | | 0 | 52.3 | chrX:153481277 -153519082 |
| chrX | 153492660 | 153492829 | *OPN1MW* | | 0 | 56.8 | chrX:153444157 -153481277 |
| chrX | 153494296 | 153494462 | *OPN1MW* | | 0 | 60.8 | chrX:153444157 -153481277 |
| chrX | 153496016 | 153496256 | *OPN1MW* | | 0 | 55.4 | chrX:153444157 -153481277 |
| chrX | 153498538 | 153498649 | *OPN1MW* | | 0 | 52.3 | chrX:153444157 -153481277 |

CD: cone dystrophy; CRD: cone-rod dystrophy; Chr: chromosome.