

Supplementary Table 3: Genotypes for the six currently most eye colour-informative SNPs and eye color prediction probabilities for 105 Slovene volunteers.

| Identification number | Population | Volunteers eye color | rs16891982 | rs12203592 | rs1800407 | rs12913832 | rs12896399 | rs1393350 | blue (p) | intermediate (p) | brown (p) |
|-----------------------|------------|----------------------|------------|------------|-----------|------------|------------|-----------|----------|------------------|-----------|
| 1 | Slovenian | blue | G | C | GA | C | GT | C | 0,945 | 0,045 | 0,011 |
| 2 | Slovenian | blue | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 3 | Slovenian | intermediate | G | C | GA | CT | T | C | 0,202 | 0,286 | 0,512 |
| 4 | Slovenian | blue | G | C | G | C | GT | CT | 0,937 | 0,041 | 0,022 |
| 5 | Slovenian | brown | G | C | GA | T | G | C | 0,008 | 0,071 | 0,921 |
| 6 | Slovenian | blue | G | C | GA | CT | G | C | 0,419 | 0,211 | 0,371 |
| 7 | Slovenian | blue | G | C | G | C | T | C | 0,870 | 0,076 | 0,053 |
| 8 | Slovenian | intermediate | G | C | G | CT | GT | C | 0,150 | 0,140 | 0,711 |
| 9 | Slovenian | brown | G | C | GA | T | GT | C | 0,005 | 0,071 | 0,924 |
| 10 | Slovenian | blue | G | C | GA | C | GT | CT | 0,955 | 0,038 | 0,007 |
| 11 | Slovenian | brown | G | C | G | CT | T | C | 0,094 | 0,148 | 0,758 |
| 12 | Slovenian | brown | G | C | G | CT | G | C | 0,229 | 0,128 | 0,643 |
| 13 | Slovenian | brown | G | C | GA | T | T | C | 0,003 | 0,071 | 0,926 |
| 14 | Slovenian | brown | G | C | G | CT | GT | CT | 0,207 | 0,161 | 0,632 |
| 15 | Slovenian | intermediate | GC | C | GA | CT | GT | CT | 0,143 | 0,222 | 0,635 |
| 16 | Slovenian | blue | G | C | G | C | G | CT | 0,962 | 0,025 | 0,013 |
| 17 | Slovenian | intermediate | G | CT | G | CT | GT | CT | 0,283 | 0,241 | 0,476 |
| 18 | Slovenian | intermediate | G | C | G | CT | G | C | 0,229 | 0,128 | 0,643 |
| 19 | Slovenian | intermediate | G | C | G | C | G | C | 0,950 | 0,030 | 0,020 |
| 20 | Slovenian | brown | G | C | G | CT | T | CT | 0,134 | 0,175 | 0,691 |
| 21 | Slovenian | blue | G | CT | G | C | G | CT | 0,965 | 0,027 | 0,007 |
| 22 | Slovenian | brown | G | C | GA | T | G | C | 0,008 | 0,071 | 0,921 |
| 23 | Slovenian | intermediate | G | C | G | CT | G | T | 0,393 | 0,152 | 0,455 |
| 24 | Slovenian | intermediate | G | CT | GA | T | T | CT | 0,007 | 0,163 | 0,830 |
| 25 | Slovenian | brown | G | CT | G | CT | G | C | 0,317 | 0,193 | 0,490 |
| 26 | Slovenian | blue | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 27 | Slovenian | blue | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 28 | Slovenian | blue | G | C | G | C | G | CT | 0,962 | 0,025 | 0,013 |
| 29 | Slovenian | brown | G | C | G | CT | GT | T | 0,277 | 0,179 | 0,543 |
| 30 | Slovenian | brown | G | C | GA | CT | GT | C | 0,299 | 0,253 | 0,448 |
| 31 | Slovenian | blue | G | C | G | C | T | CT | 0,899 | 0,066 | 0,035 |
| 32 | Slovenian | blue | G | C | G | C | G | T | 0,970 | 0,021 | 0,009 |
| 33 | Slovenian | blue | G | C | G | C | T | C | 0,870 | 0,076 | 0,053 |
| 34 | Slovenian | blue | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 35 | Slovenian | blue | G | C | GA | C | G | CT | 0,973 | 0,023 | 0,004 |
| 36 | Slovenian | blue | G | C | G | C | GT | CT | 0,937 | 0,041 | 0,022 |
| 37 | Slovenian | brown | GC | CT | GA | T | G | CT | 0,005 | 0,087 | 0,908 |
| 38 | Slovenian | blue | G | C | G | C | G | C | 0,950 | 0,030 | 0,020 |
| 39 | Slovenian | brown | G | C | G | CT | GT | C | 0,150 | 0,140 | 0,711 |
| 40 | Slovenian | blue | G | C | G | C | GT | CT | 0,937 | 0,041 | 0,022 |
| 41 | Slovenian | blue | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 42 | Slovenian | blue | G | C | G | C | GT | CT | 0,937 | 0,041 | 0,022 |
| 43 | Slovenian | blue | G | C | G | C | T | C | 0,870 | 0,076 | 0,053 |
| 44 | Slovenian | intermediate | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 45 | Slovenian | blue | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 46 | Slovenian | brown | G | C | G | CT | T | C | 0,094 | 0,148 | 0,758 |
| 47 | Slovenian | blue | G | C | GA | C | G | C | 0,966 | 0,027 | 0,007 |
| 48 | Slovenian | intermediate | G | C | GA | T | G | CT | 0,012 | 0,090 | 0,898 |
| 49 | Slovenian | blue | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 50 | Slovenian | brown | G | CT | G | CT | GT | C | 0,215 | 0,221 | 0,564 |
| 51 | Slovenian | blue | G | C | G | C | T | C | 0,870 | 0,076 | 0,053 |

| | | | | | | | | | | | | |
|-----|-----------|--------------|-------|----|----|----|----|----|----|-------|-------|-------|
| 52 | Slovenian | | brown | GC | C | G | CT | GT | C | 0,040 | 0,083 | 0,877 |
| 53 | Slovenian | intermediate | | G | CT | G | CT | G | C | 0,317 | 0,193 | 0,490 |
| 54 | Slovenian | intermediate | | G | C | GA | CT | GT | CT | 0,375 | 0,264 | 0,361 |
| 55 | Slovenian | blue | | GC | C | G | C | G | C | 0,857 | 0,059 | 0,085 |
| 56 | Slovenian | | brown | G | C | G | T | G | C | 0,003 | 0,026 | 0,971 |
| 57 | Slovenian | intermediate | | G | CT | G | CT | GT | T | 0,359 | 0,254 | 0,387 |
| 58 | Slovenian | intermediate | | G | CT | G | CT | GT | C | 0,215 | 0,221 | 0,564 |
| 59 | Slovenian | | brown | G | C | G | CT | GT | CT | 0,207 | 0,161 | 0,632 |
| 60 | Slovenian | blue | | G | C | G | C | GT | CT | 0,937 | 0,041 | 0,022 |
| 61 | Slovenian | blue | | G | C | G | C | G | CT | 0,962 | 0,025 | 0,013 |
| 62 | Slovenian | blue | | G | CT | G | C | G | CT | 0,965 | 0,027 | 0,007 |
| 63 | Slovenian | | brown | G | C | G | T | G | C | 0,003 | 0,026 | 0,971 |
| 64 | Slovenian | intermediate | | GC | C | GA | CT | GT | CT | 0,143 | 0,222 | 0,635 |
| 65 | Slovenian | blue | | G | C | G | C | G | C | 0,950 | 0,030 | 0,020 |
| 66 | Slovenian | | brown | G | C | G | CT | GT | C | 0,150 | 0,140 | 0,711 |
| 67 | Slovenian | intermediate | | G | C | GA | CT | GT | C | 0,299 | 0,253 | 0,448 |
| 68 | Slovenian | blue | | G | C | G | C | T | CT | 0,899 | 0,066 | 0,035 |
| 69 | Slovenian | blue | | G | C | GA | CT | G | CT | 0,503 | 0,211 | 0,286 |
| 70 | Slovenian | intermediate | | GC | C | G | CT | GT | C | 0,040 | 0,083 | 0,877 |
| 71 | Slovenian | | brown | G | C | G | CT | T | CT | 0,134 | 0,175 | 0,691 |
| 72 | Slovenian | | brown | G | C | G | T | G | C | 0,003 | 0,026 | 0,971 |
| 73 | Slovenian | | brown | G | C | G | CT | T | C | 0,094 | 0,148 | 0,758 |
| 74 | Slovenian | intermediate | | G | C | G | CT | GT | C | 0,150 | 0,140 | 0,711 |
| 75 | Slovenian | blue | | G | CT | G | C | T | C | 0,885 | 0,085 | 0,030 |
| 76 | Slovenian | blue | | G | C | G | C | G | C | 0,950 | 0,030 | 0,020 |
| 77 | Slovenian | blue | | G | C | G | C | GT | CT | 0,937 | 0,041 | 0,022 |
| 78 | Slovenian | intermediate | | G | CT | G | CT | G | C | 0,317 | 0,193 | 0,490 |
| 79 | Slovenian | intermediate | | G | C | GA | CT | G | C | 0,419 | 0,211 | 0,371 |
| 80 | Slovenian | intermediate | | G | C | G | CT | G | C | 0,229 | 0,128 | 0,643 |
| 81 | Slovenian | blue | | G | C | G | C | GT | T | 0,951 | 0,034 | 0,014 |
| 82 | Slovenian | | brown | G | C | G | T | GT | C | 0,002 | 0,026 | 0,972 |
| 83 | Slovenian | intermediate | | G | CT | G | CT | G | CT | 0,400 | 0,203 | 0,397 |
| 84 | Slovenian | intermediate | | G | C | G | CT | T | CT | 0,134 | 0,175 | 0,691 |
| 85 | Slovenian | intermediate | | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 86 | Slovenian | | brown | G | C | GA | CT | G | C | 0,419 | 0,211 | 0,371 |
| 87 | Slovenian | intermediate | | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 88 | Slovenian | blue | | G | C | GA | C | GT | CT | 0,955 | 0,038 | 0,007 |
| 89 | Slovenian | blue | | G | C | G | C | GT | C | 0,919 | 0,048 | 0,033 |
| 90 | Slovenian | blue | | G | C | G | C | G | C | 0,950 | 0,030 | 0,020 |
| 91 | Slovenian | | brown | G | C | G | CT | GT | C | 0,150 | 0,140 | 0,711 |
| 92 | Slovenian | blue | | G | C | G | C | G | CT | 0,962 | 0,025 | 0,013 |
| 93 | Slovenian | | brown | G | C | GA | T | G | CT | 0,012 | 0,090 | 0,898 |
| 94 | Slovenian | intermediate | | G | C | G | CT | GT | CT | 0,207 | 0,161 | 0,632 |
| 95 | Slovenian | | brown | GC | C | G | CT | GT | C | 0,040 | 0,083 | 0,877 |
| 96 | Slovenian | blue | | G | C | G | C | T | C | 0,870 | 0,076 | 0,053 |
| 97 | Slovenian | blue | | G | C | G | C | GT | CT | 0,937 | 0,041 | 0,022 |
| 98 | Slovenian | blue | | G | C | G | C | T | T | 0,921 | 0,056 | 0,023 |
| 99 | Slovenian | intermediate | | G | CT | G | T | GT | C | 0,003 | 0,051 | 0,947 |
| 100 | Slovenian | | brown | G | C | A | T | GT | C | 0,013 | 0,178 | 0,809 |
| 101 | Slovenian | blue | | G | C | G | C | G | C | 0,950 | 0,030 | 0,020 |
| 102 | Slovenian | | brown | G | CT | G | CT | G | C | 0,317 | 0,193 | 0,490 |
| 103 | Slovenian | blue | | G | C | G | C | G | T | 0,970 | 0,021 | 0,009 |
| 104 | Slovenian | | brown | G | C | G | T | GT | CT | 0,002 | 0,034 | 0,964 |
| 105 | Slovenian | blue | | G | C | G | C | GT | CT | 0,937 | 0,041 | 0,022 |