

The development of a novel SNP genotyping assay to differentiate cacao clones

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Appendix 1: DMAS-qPCR Scatterplots

Two dimensional plot created by plotting the mean Cq values of the two parallel DMAS-qPCR reactions on opposite axes, either detecting the reference or alternative allele. In these plots, samples with a heterozygous genotype, having two low Cq values, are grouped in the lower left corner of the plot while homozygous samples appear either in the upper left or lower right corner. The plots below display the results of each DMAS-qPCR SNP assay used for genotyping different cacao accessions.

X/Y values

x-axis: Cq value reference allele for that specific SNP marker

y-axis: Cq value alternative allele for that specific SNP marker

Color code

Black: Left upper corner, Low Cq value for the reference allele in combination with a high Cq value for the alternative allele results in the following SNP genotype for that specific sample and SNP marker: homozygous for the reference allele.

Red: Left lower corner, Low Cq value for the reference allele in combination with a low Cq value for the alternative allele results in the following SNP genotype for that specific sample and SNP marker: heterozygous.

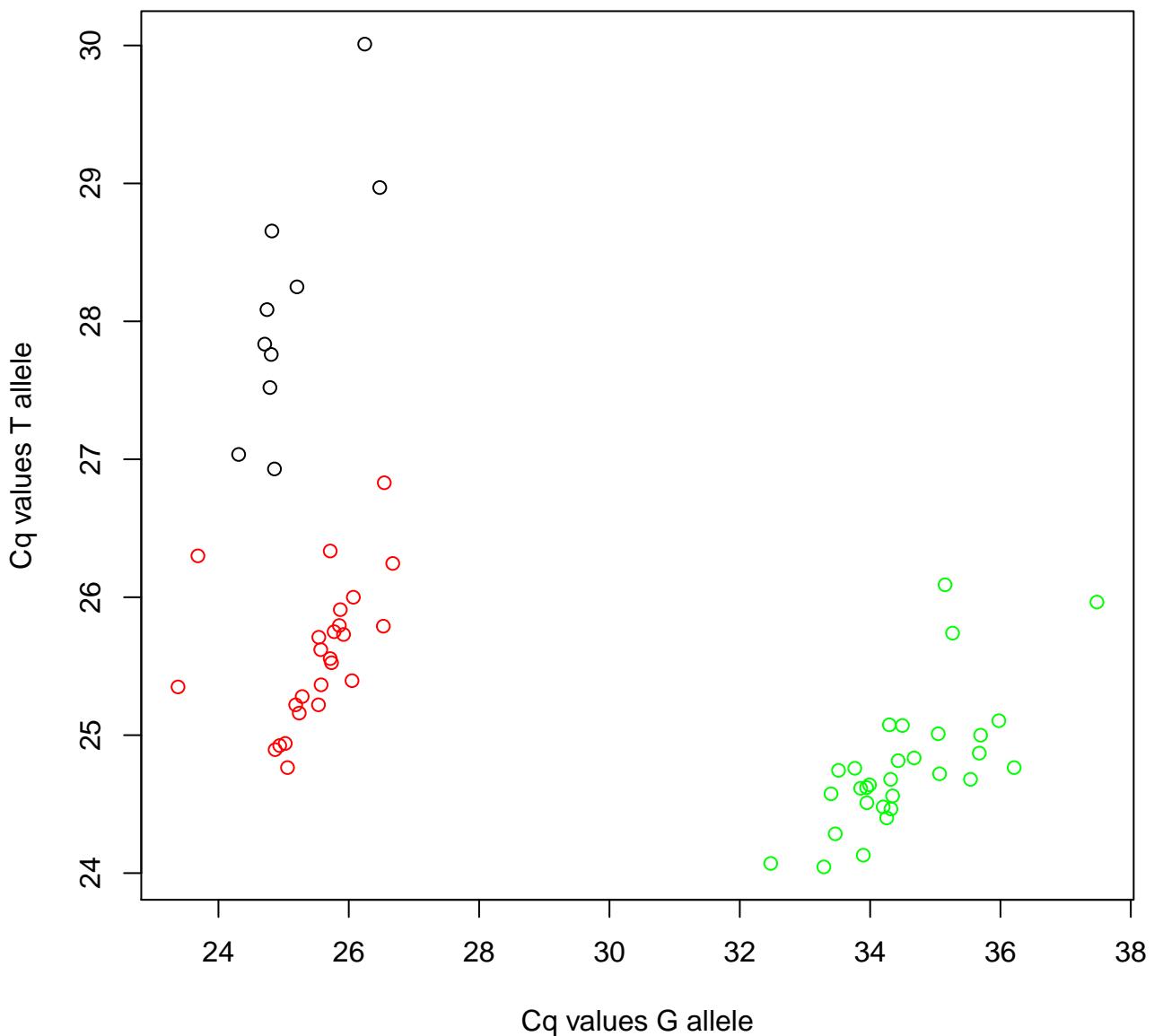
Green: Right lower corner, High Cq value for the reference allele in combination with a low Cq value for the alternative allele results in the following SNP genotype for that specific sample and SNP marker: homozygous for the alternative allele.

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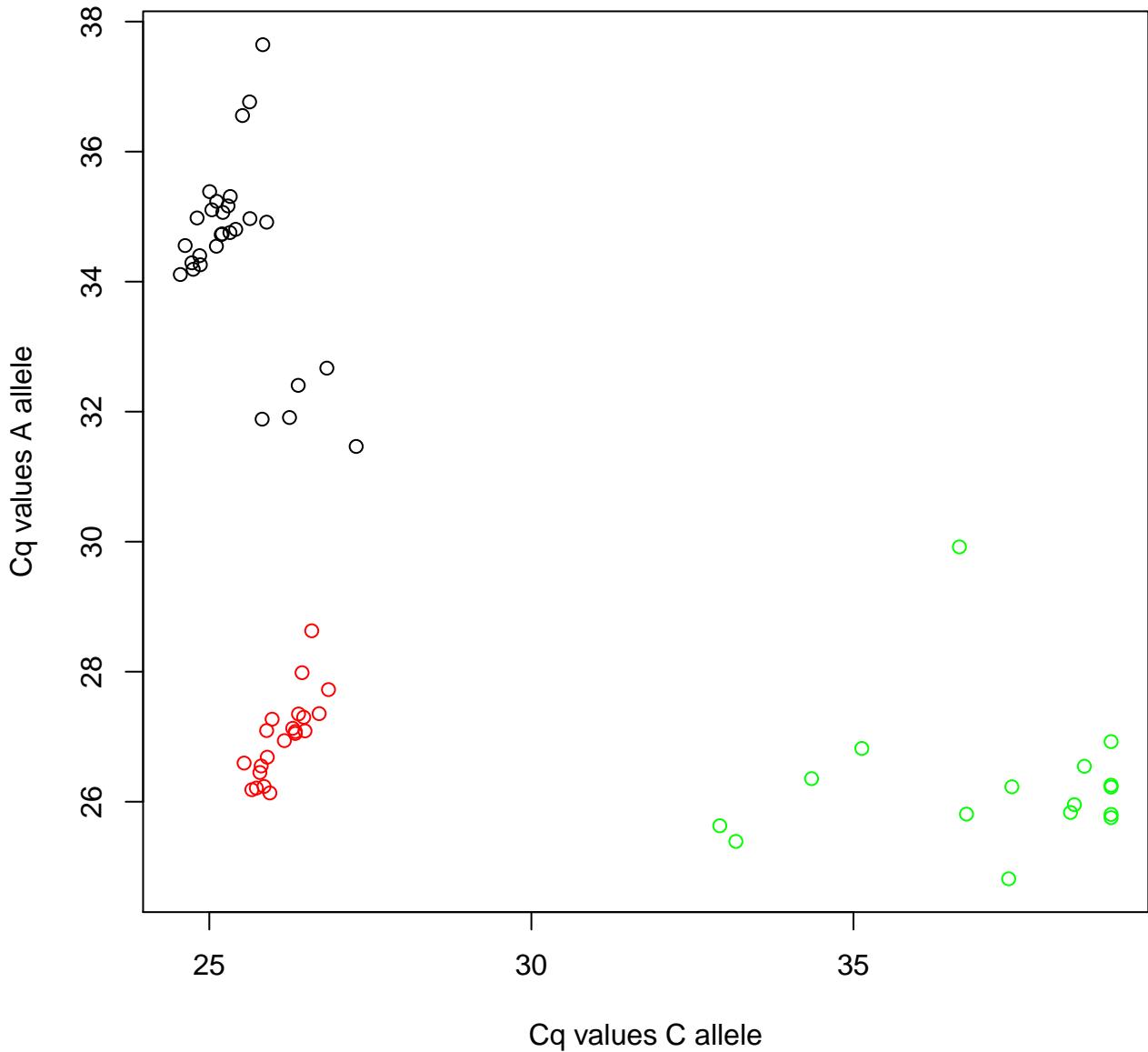
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3. TcSNP151
4. TcSNP174
5. TcSNP193
6. TcSNP226
7. TcSNP230
8. TcSNP364
9. TcSNP372
10. TcSNP413
11. TcSNP448
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13. TcSNP591
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19. TcSNP860
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27. TcSNP1126
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29. TcSNP1331
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33. Tcm002s29938429
34. Tcm002s34015437
35. Tcm003s05554949
36. Tcm003s12502217
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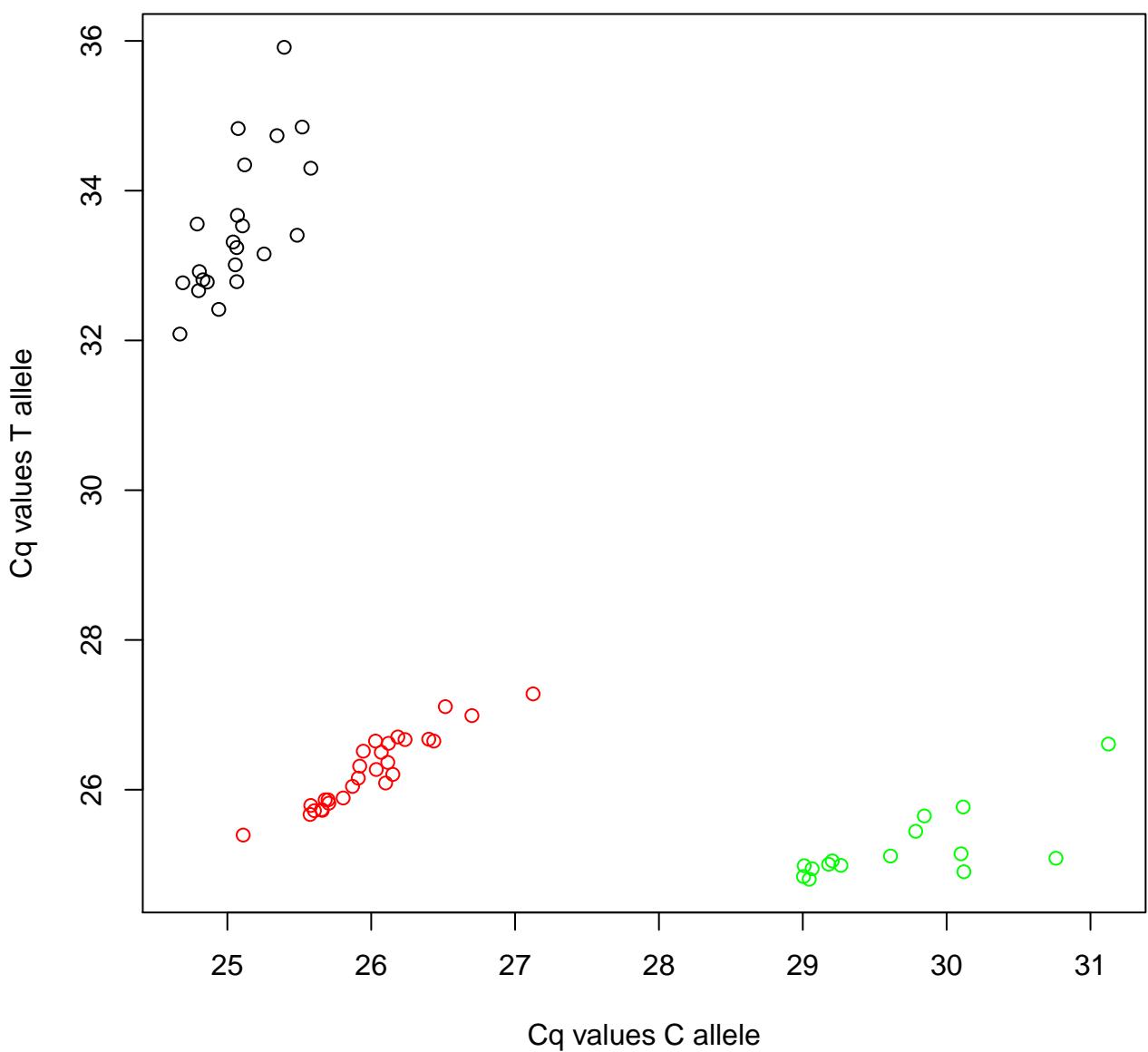
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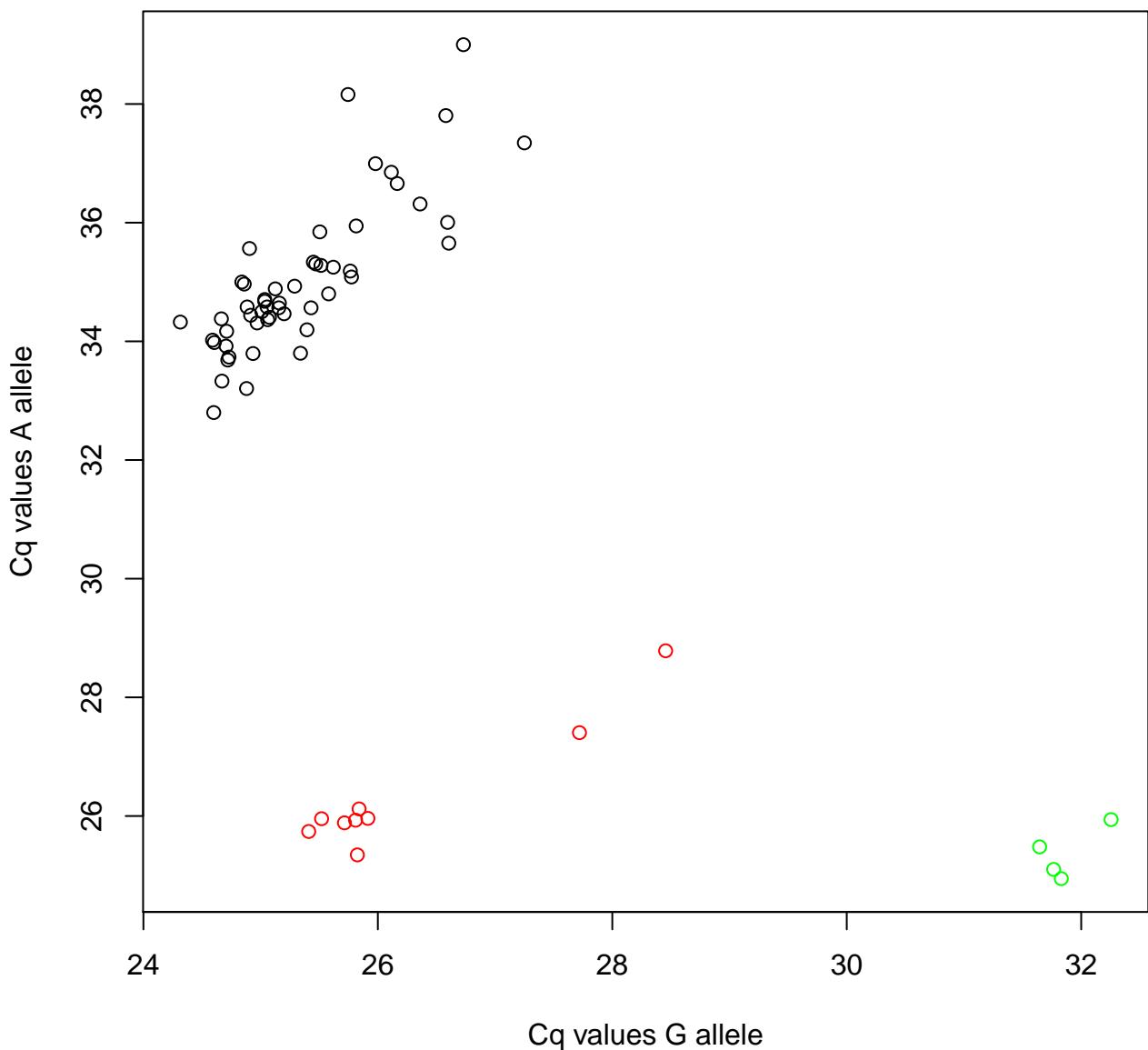
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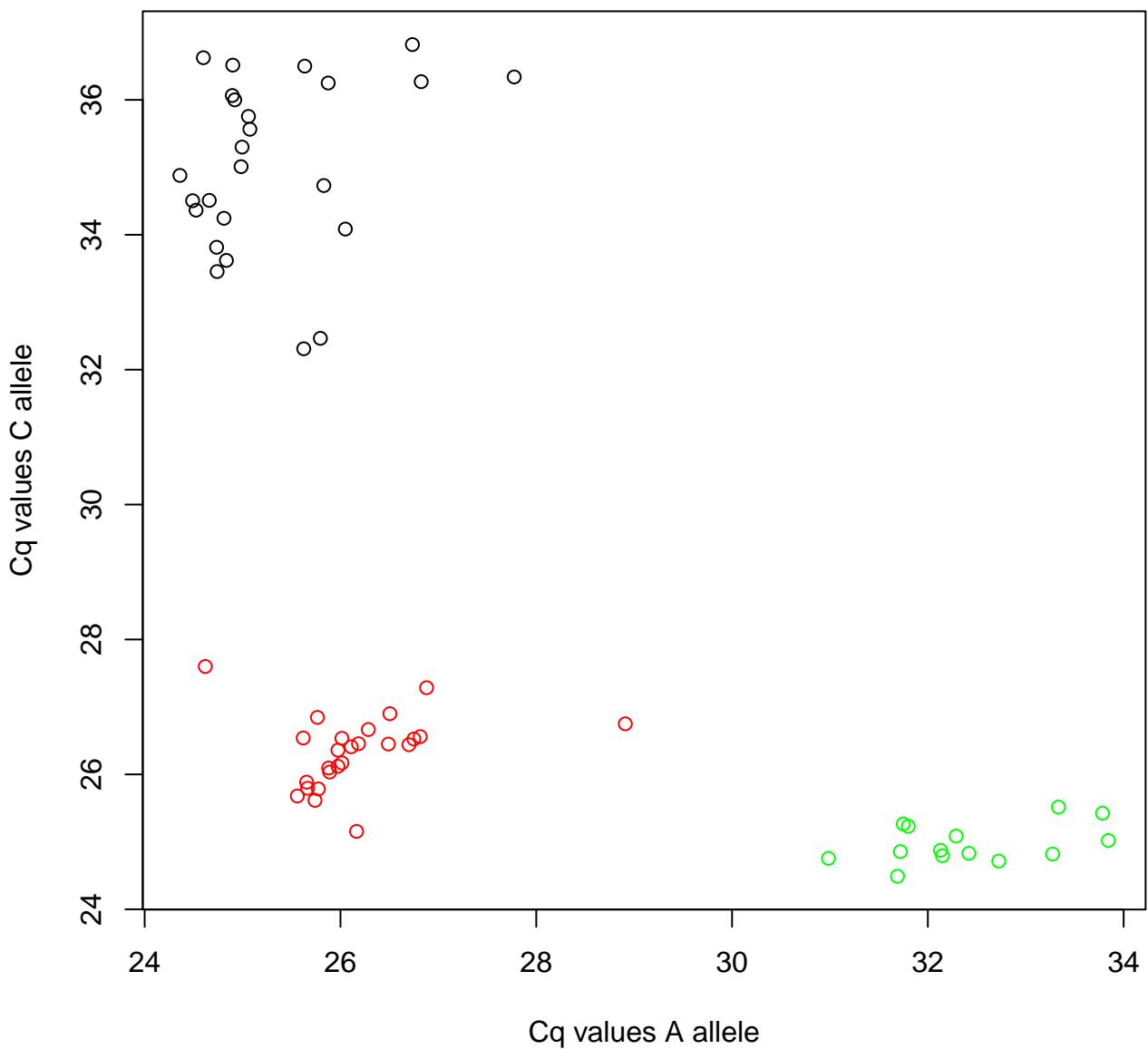
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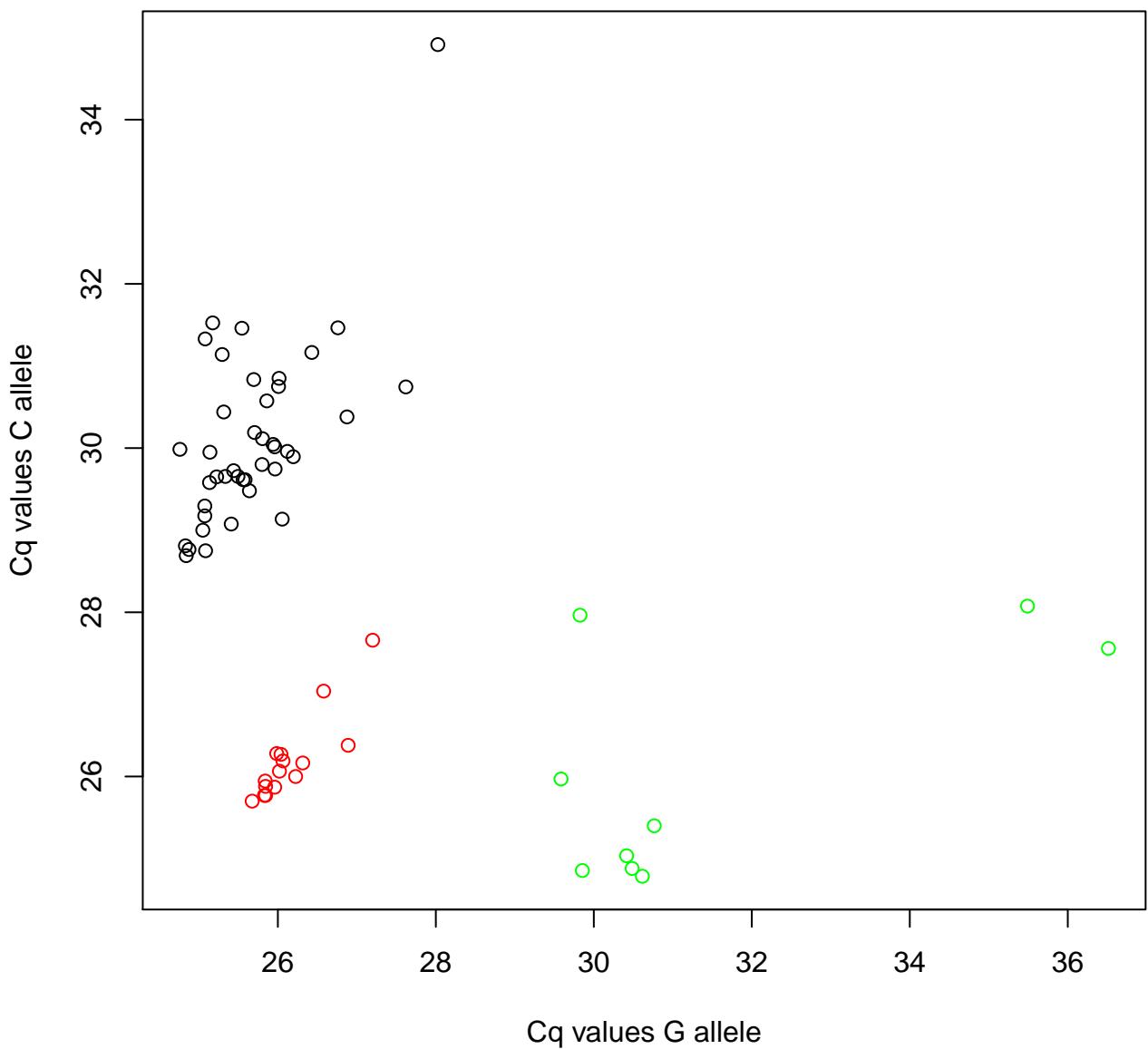
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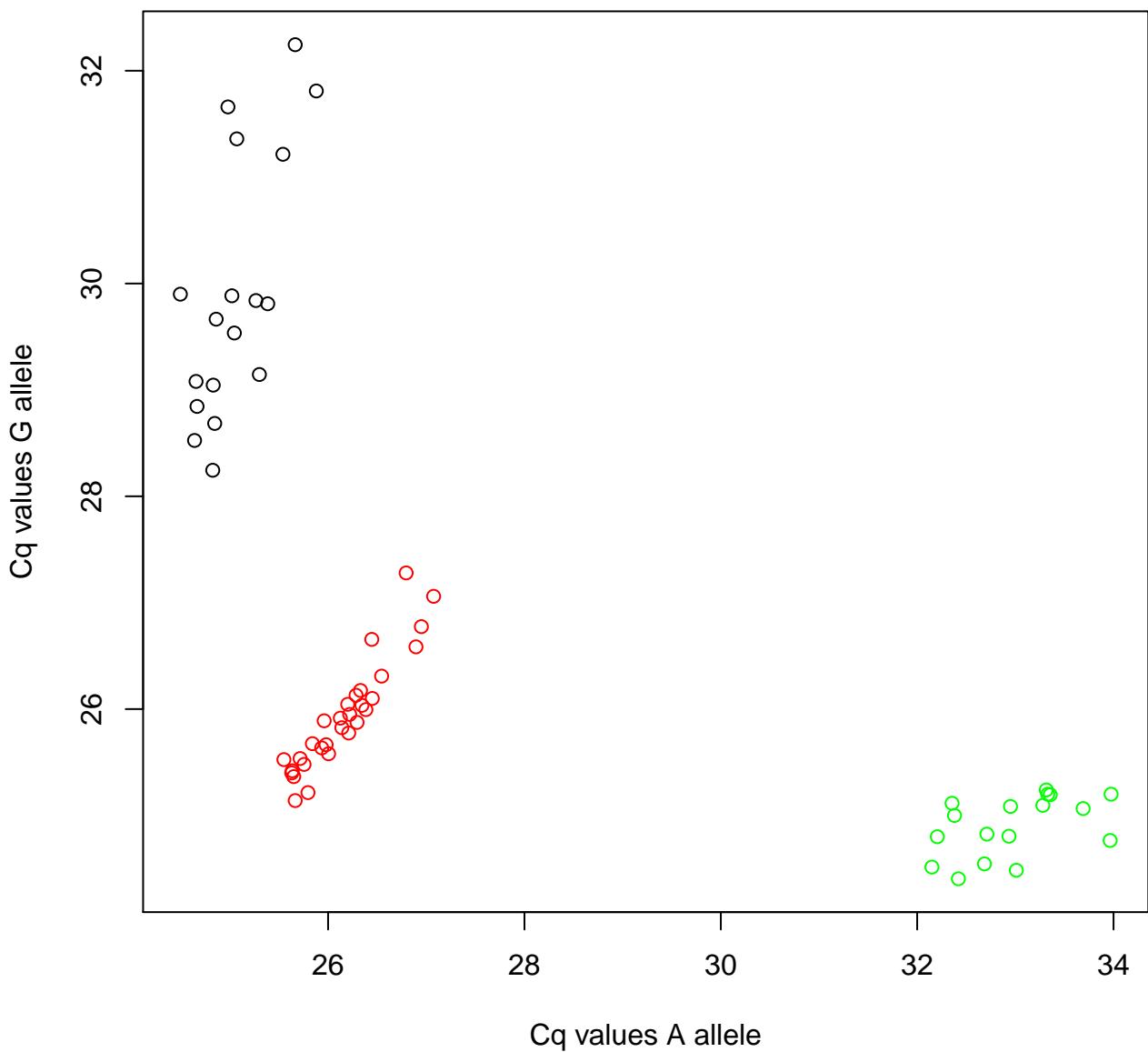
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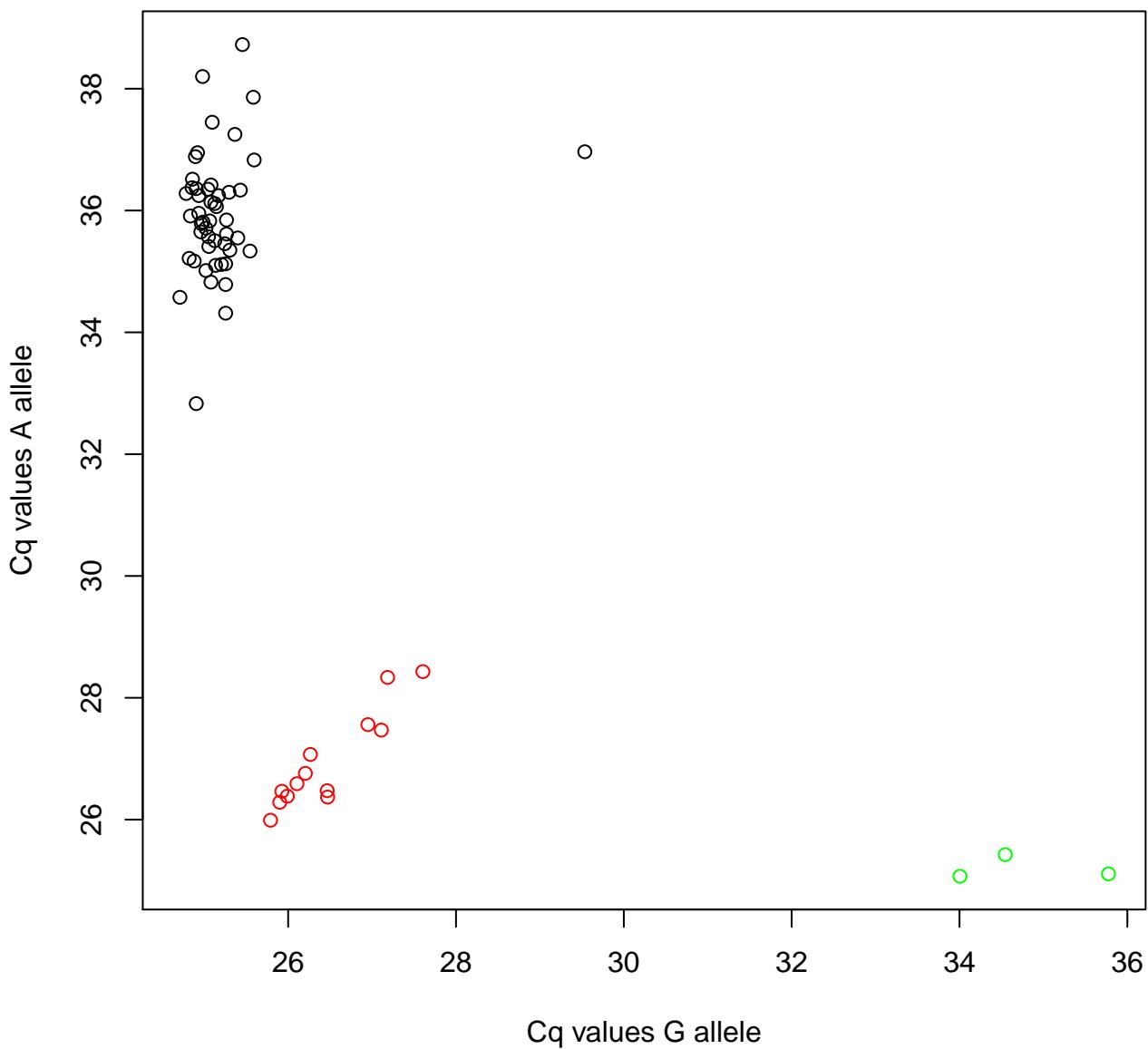
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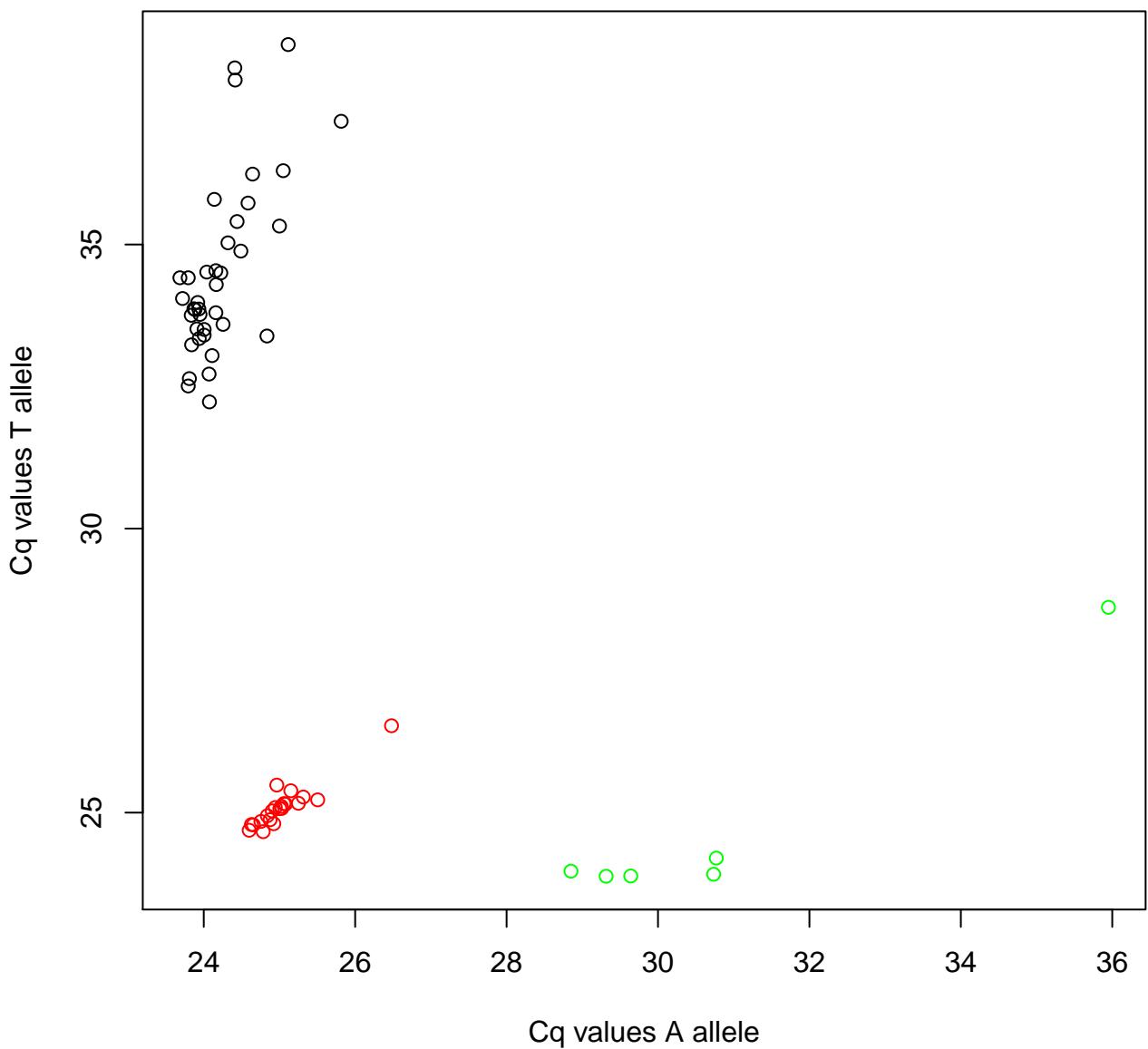
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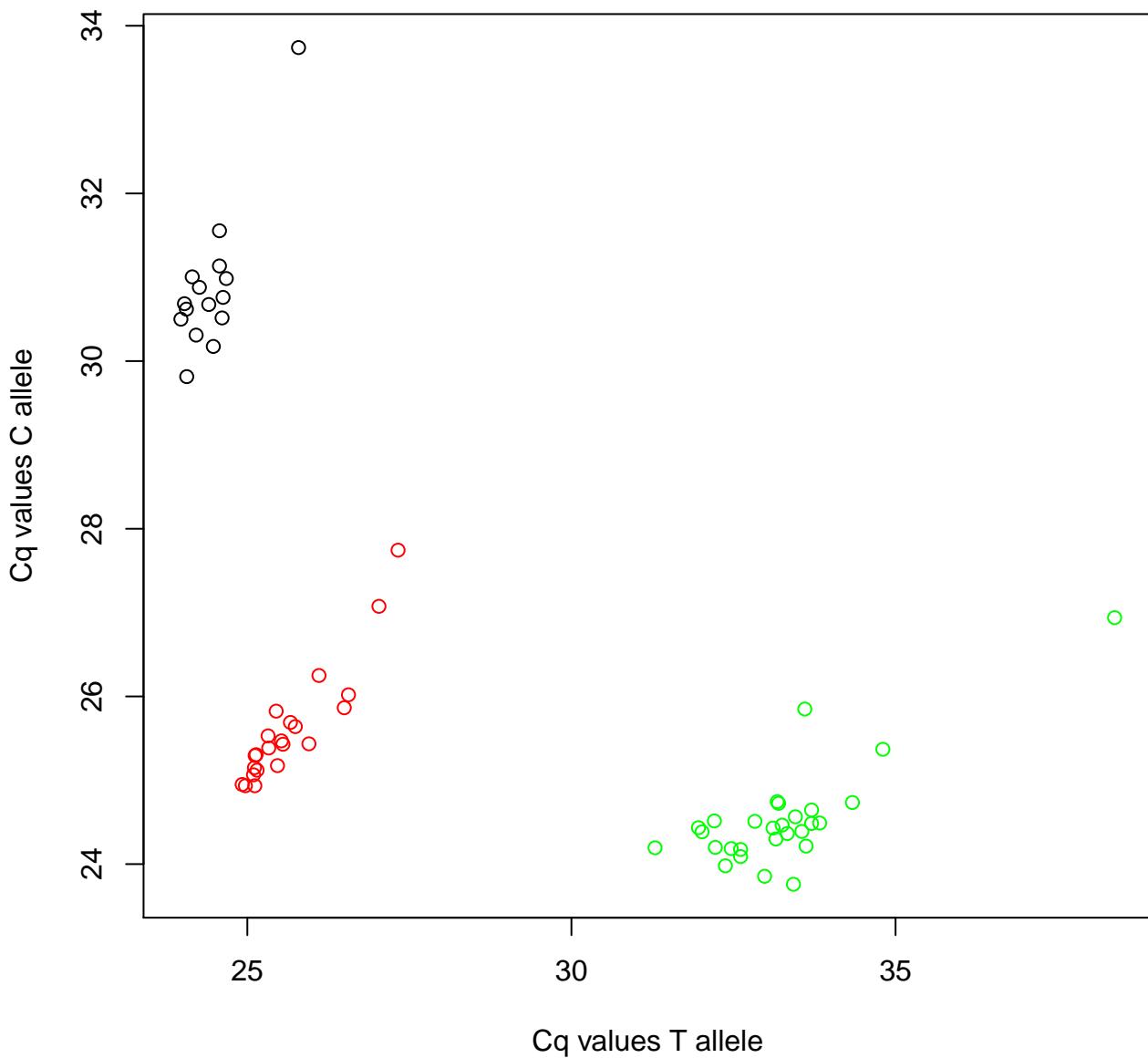
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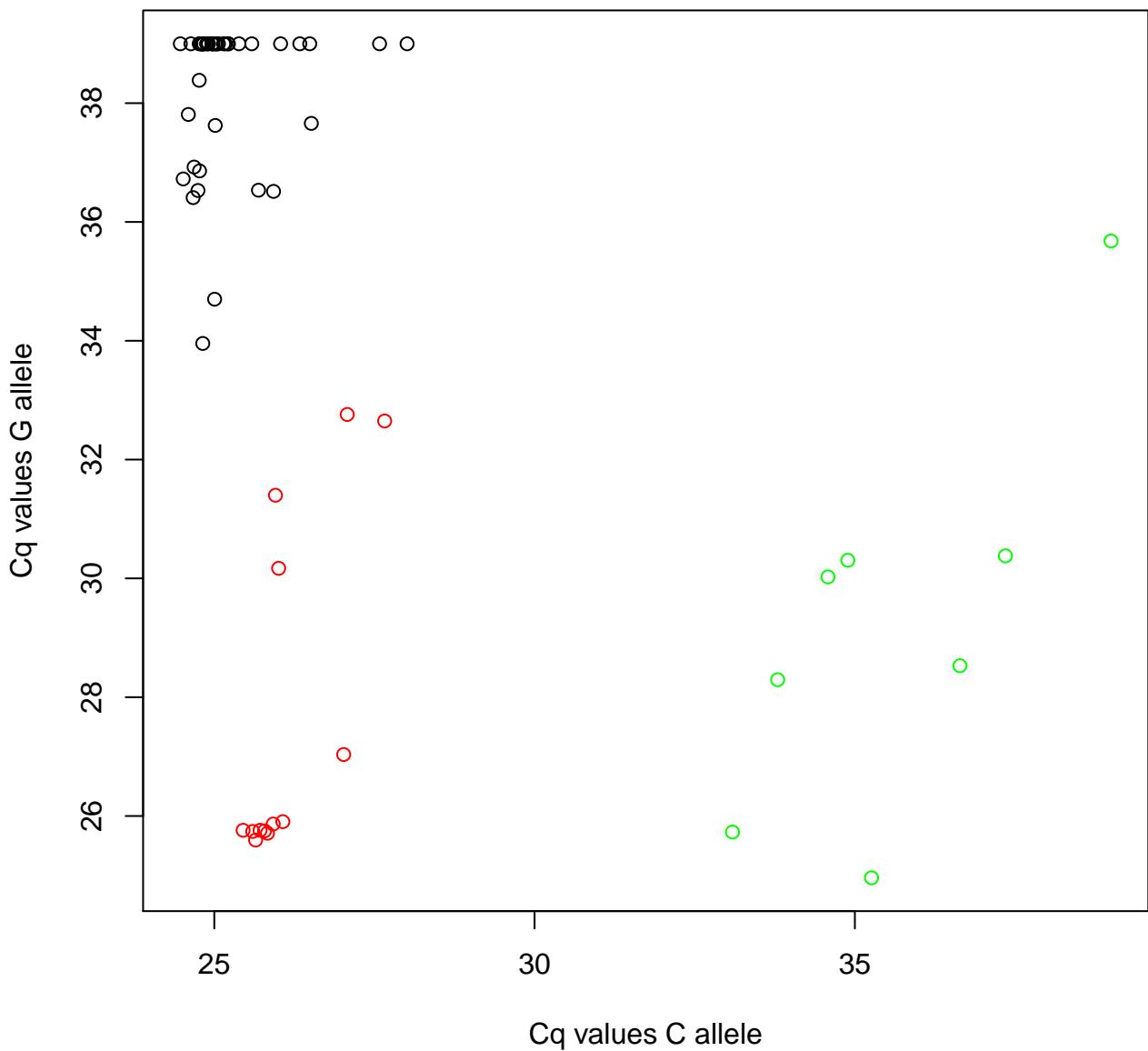
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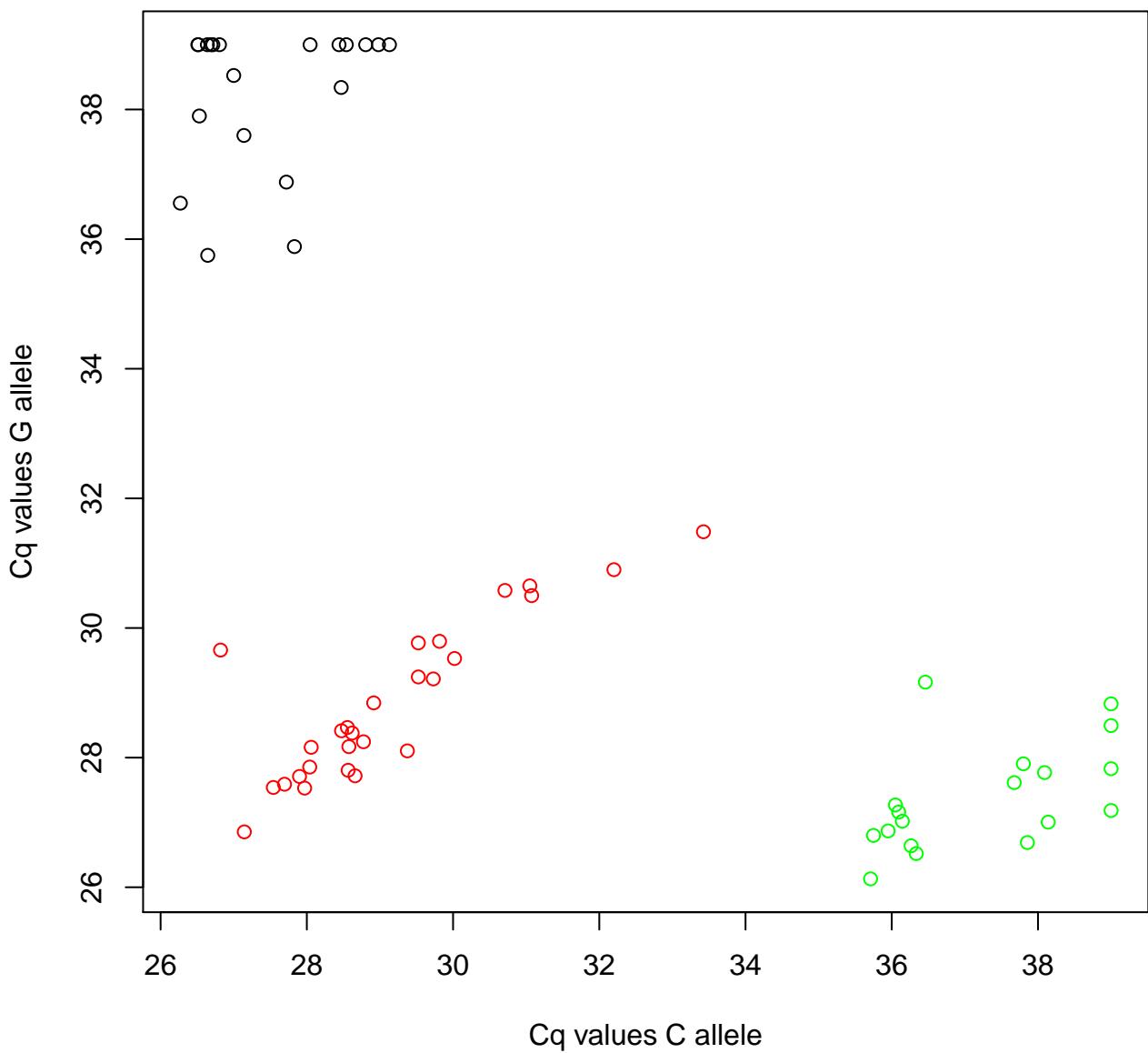
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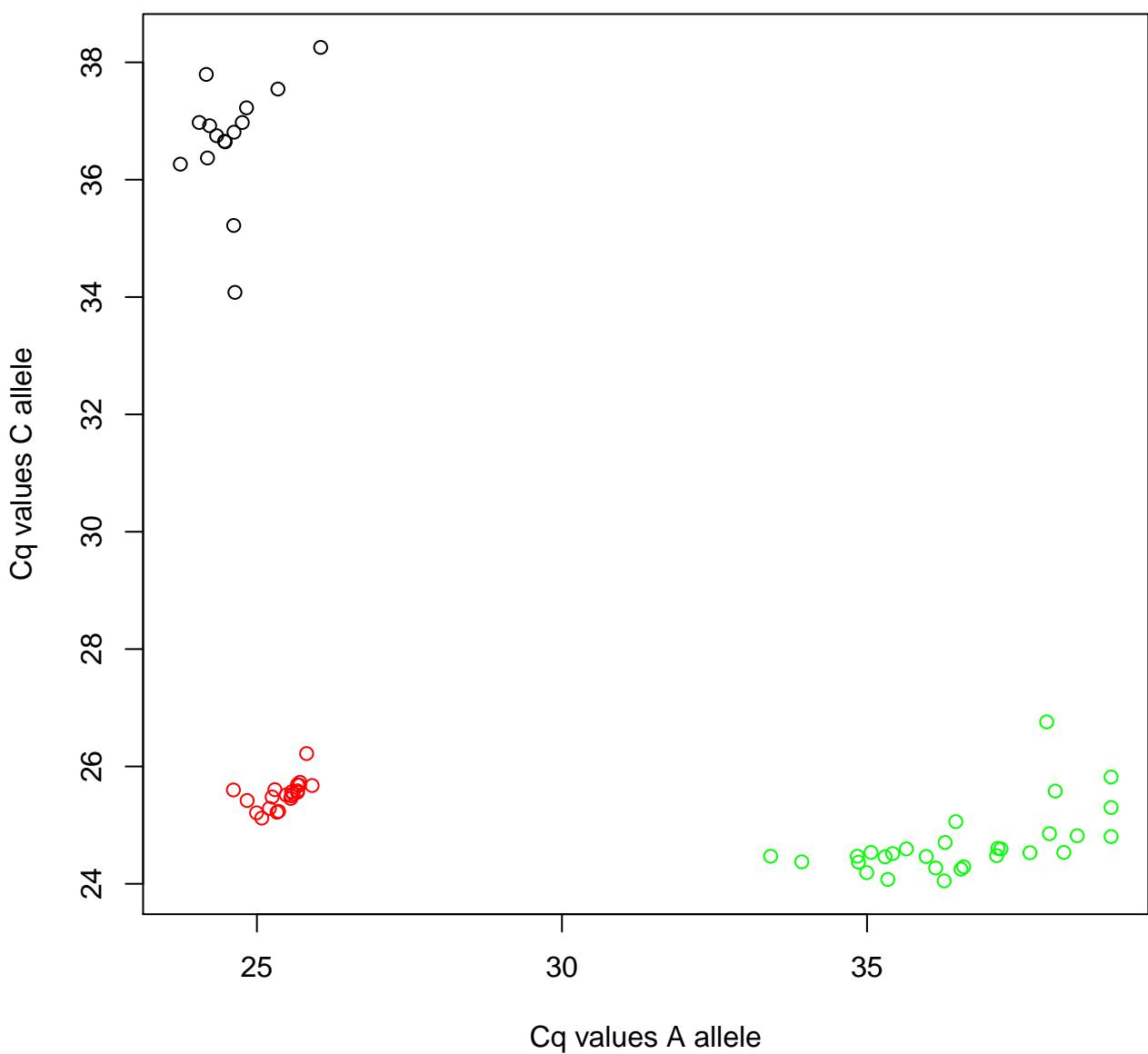
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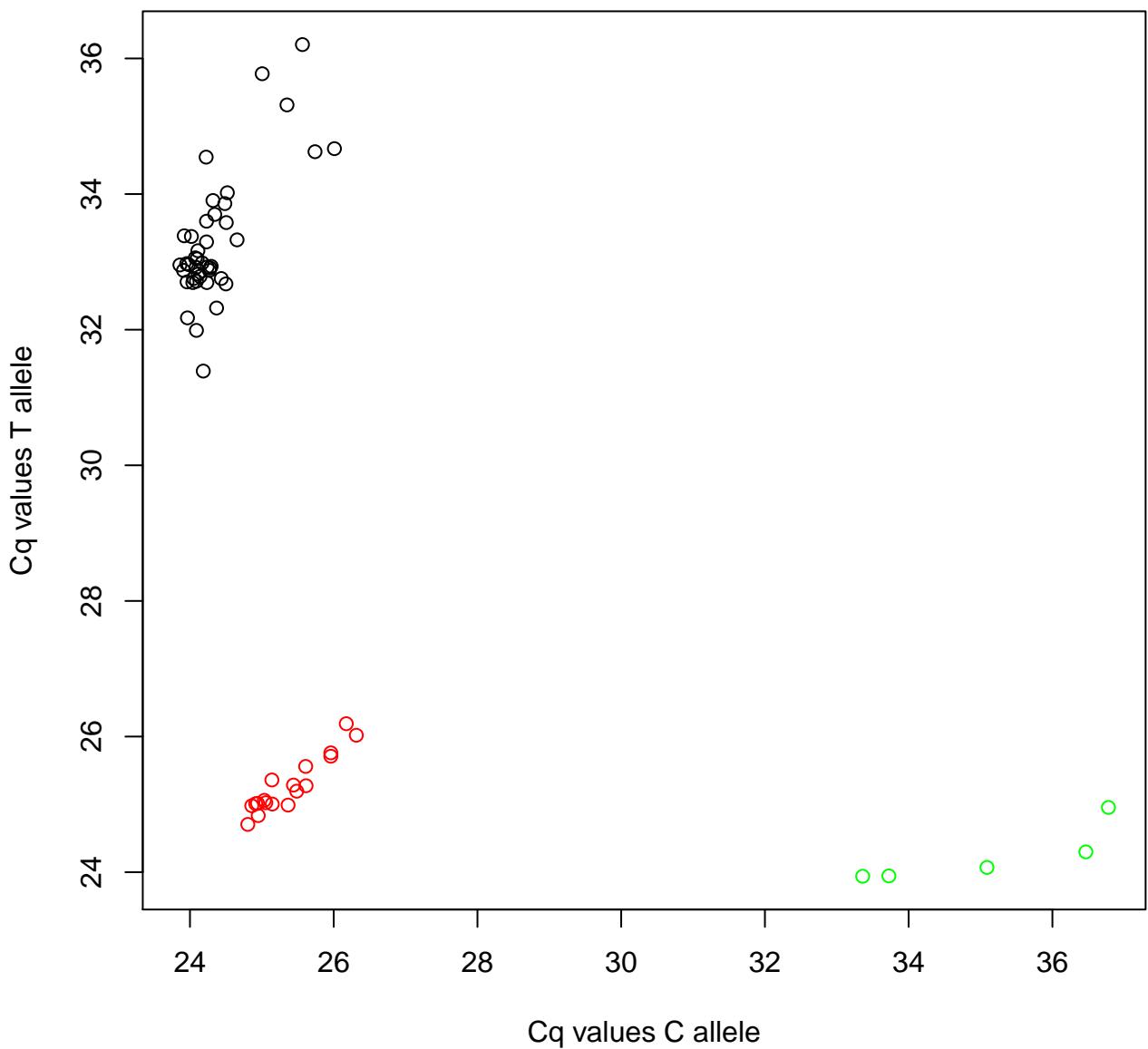
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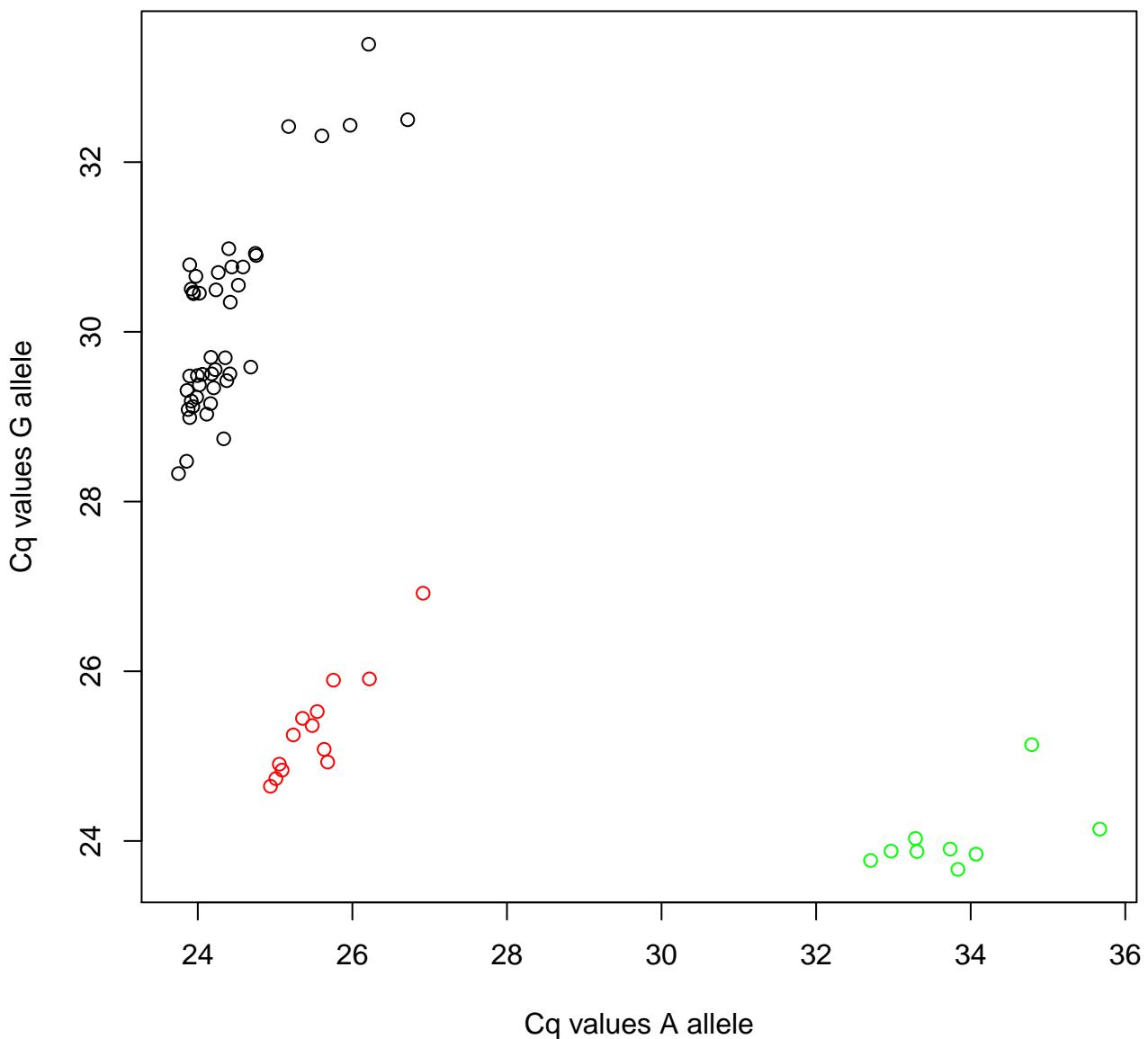
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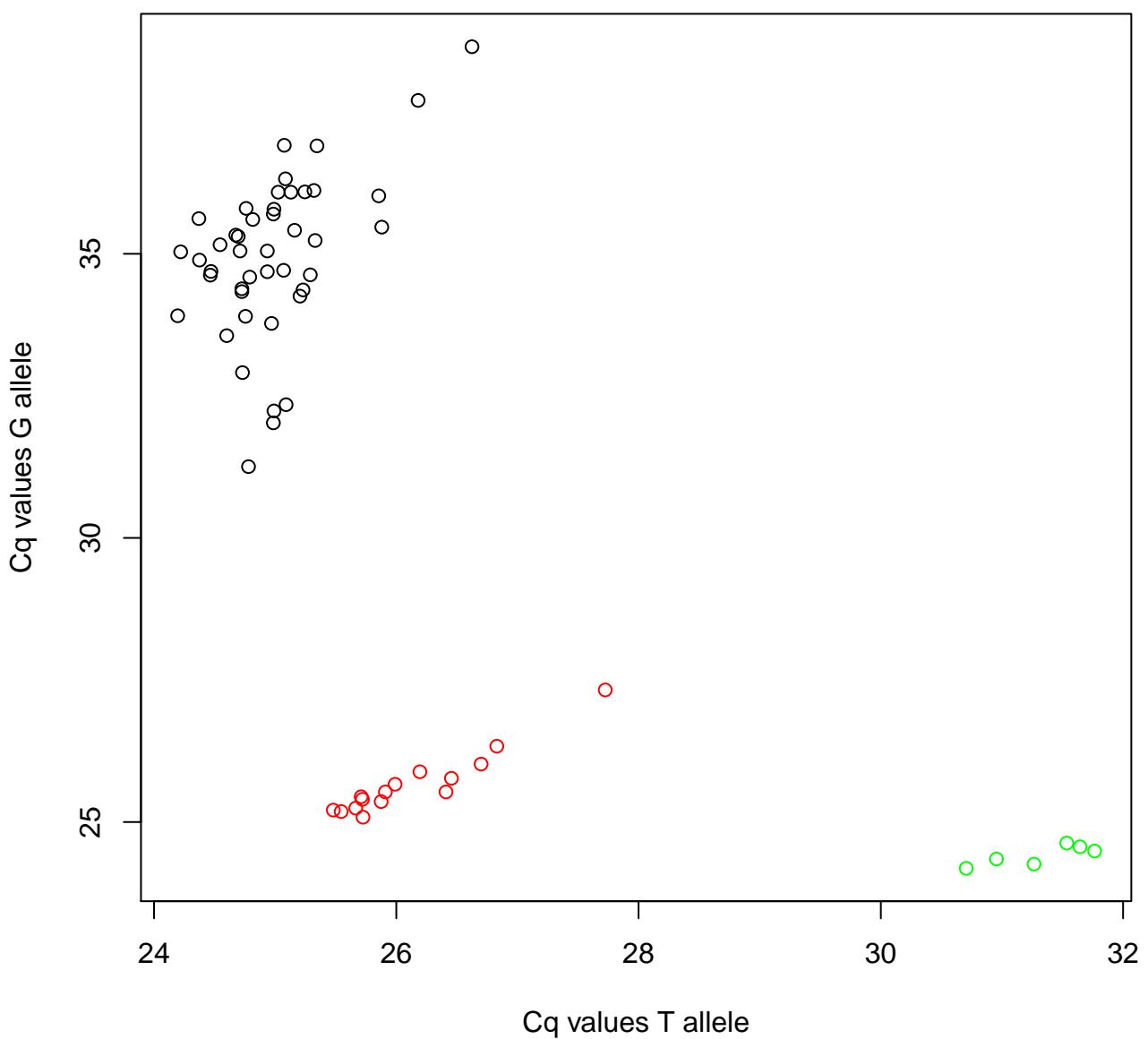
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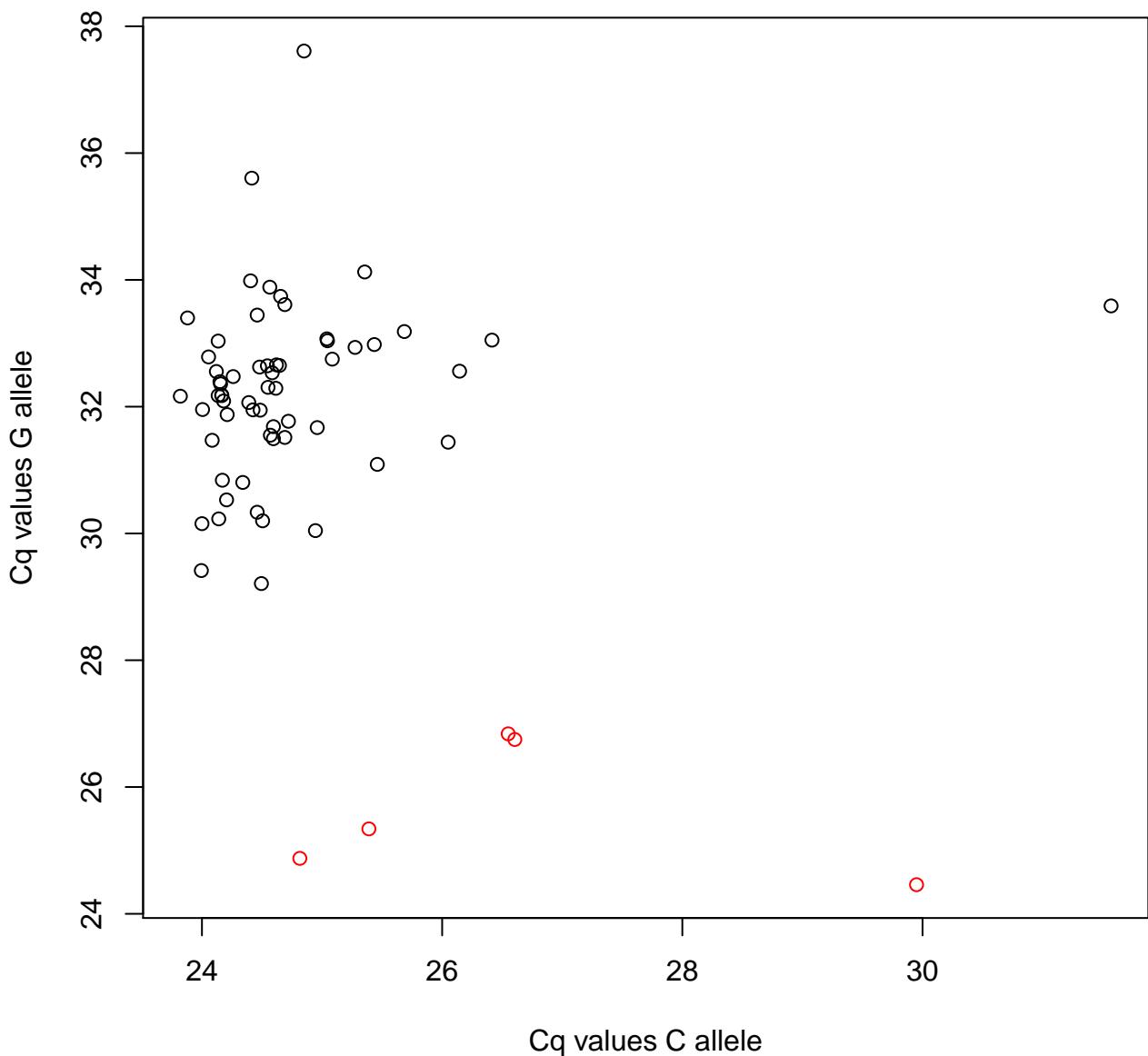
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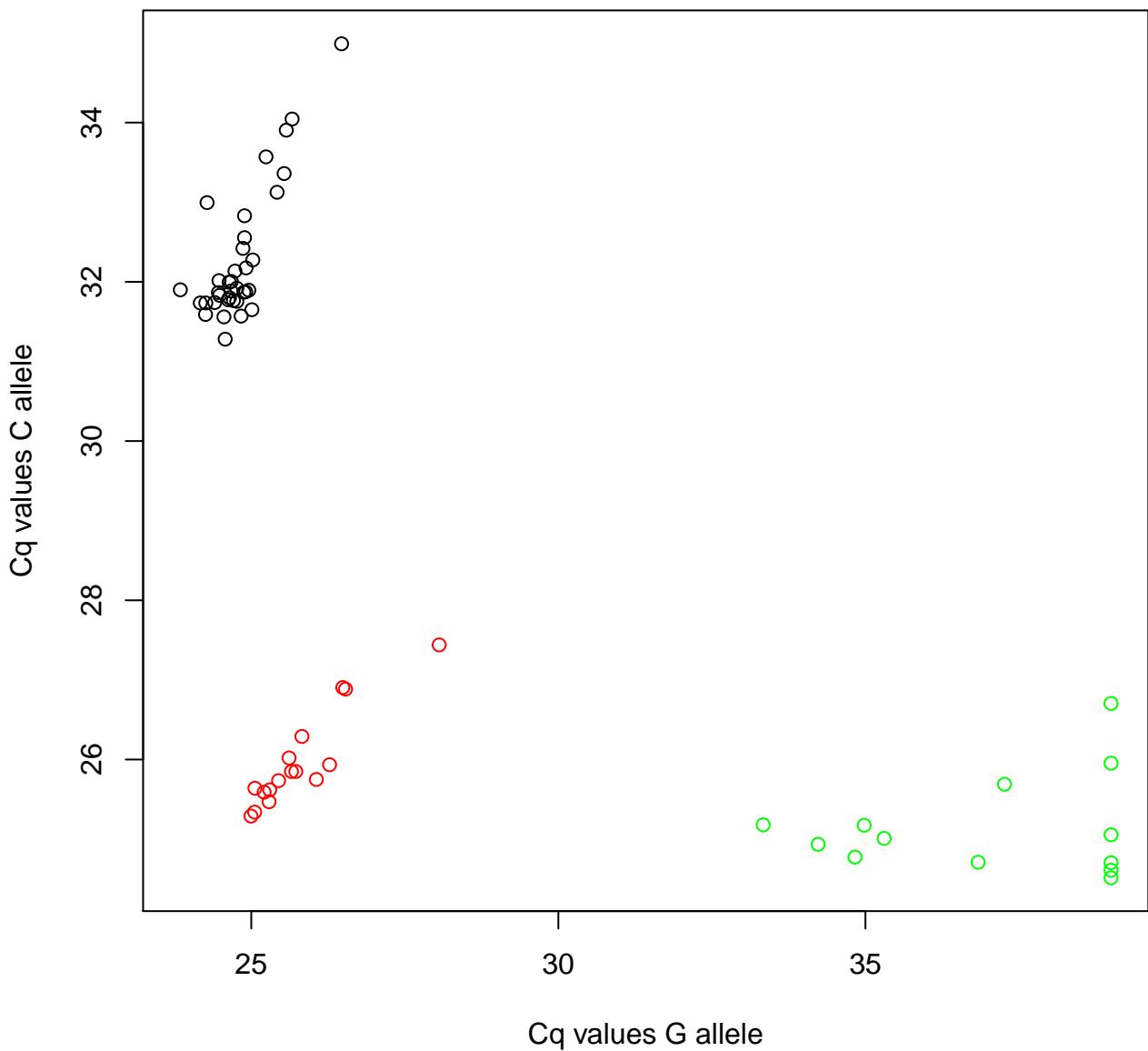
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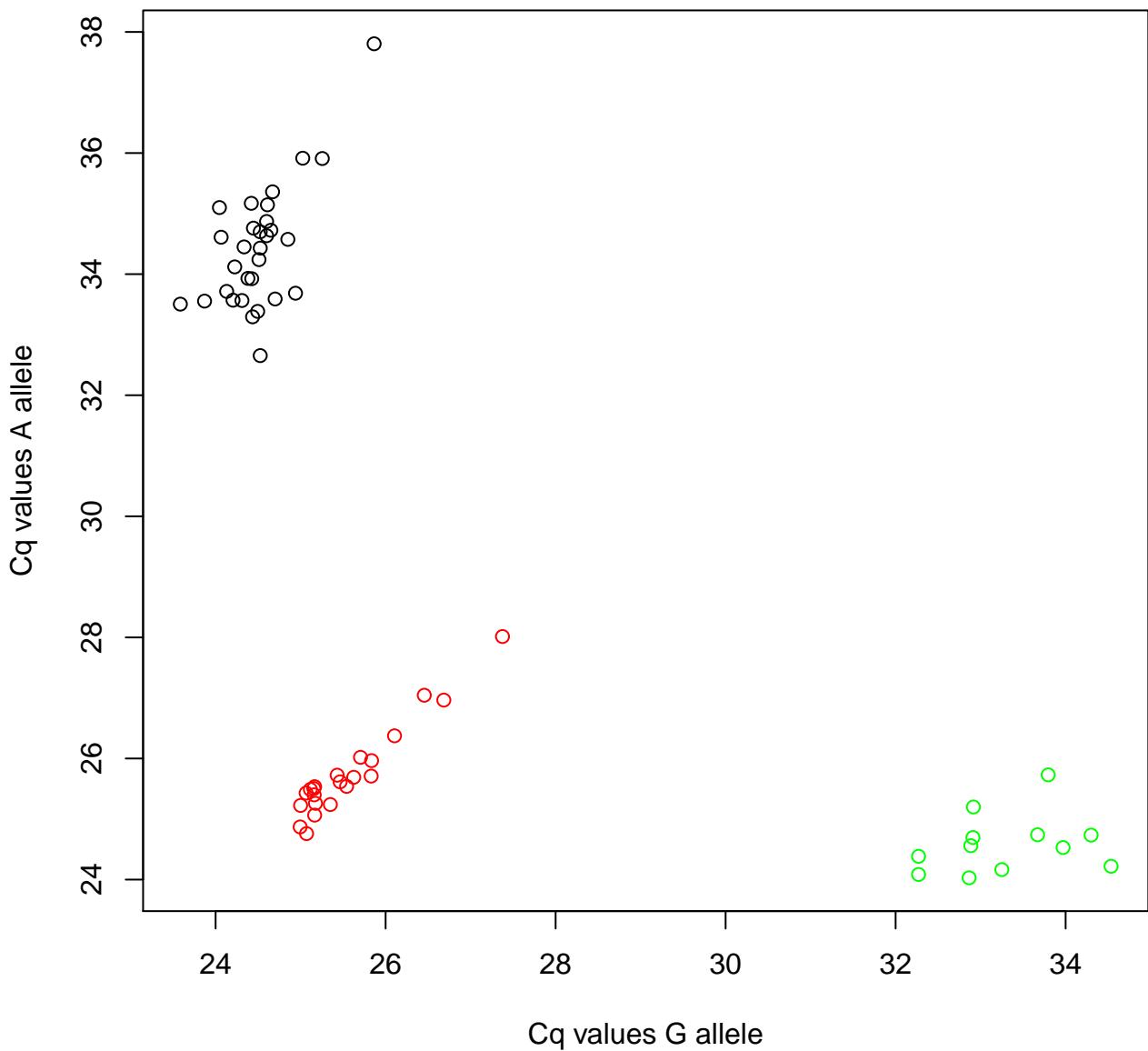
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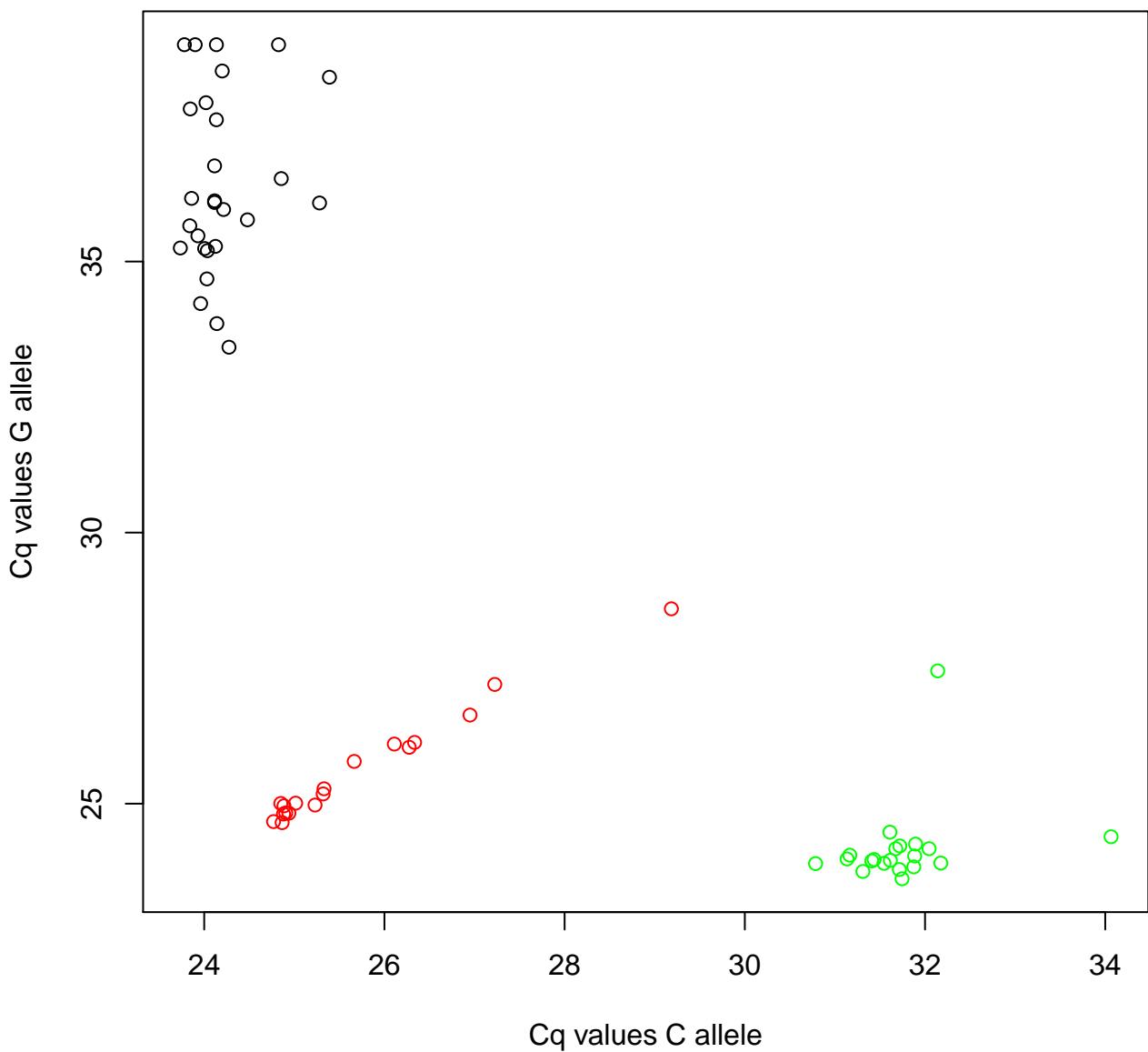
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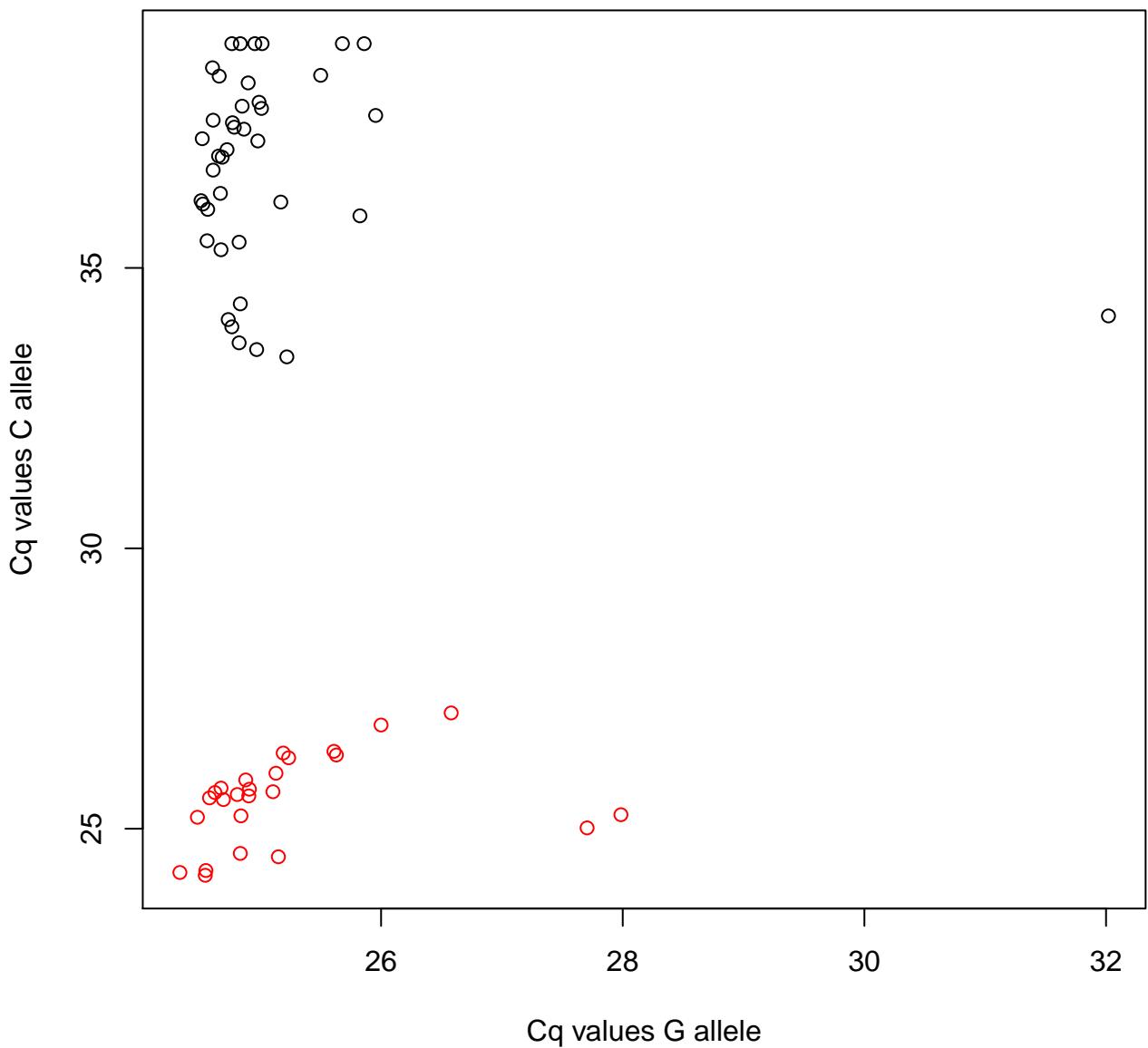
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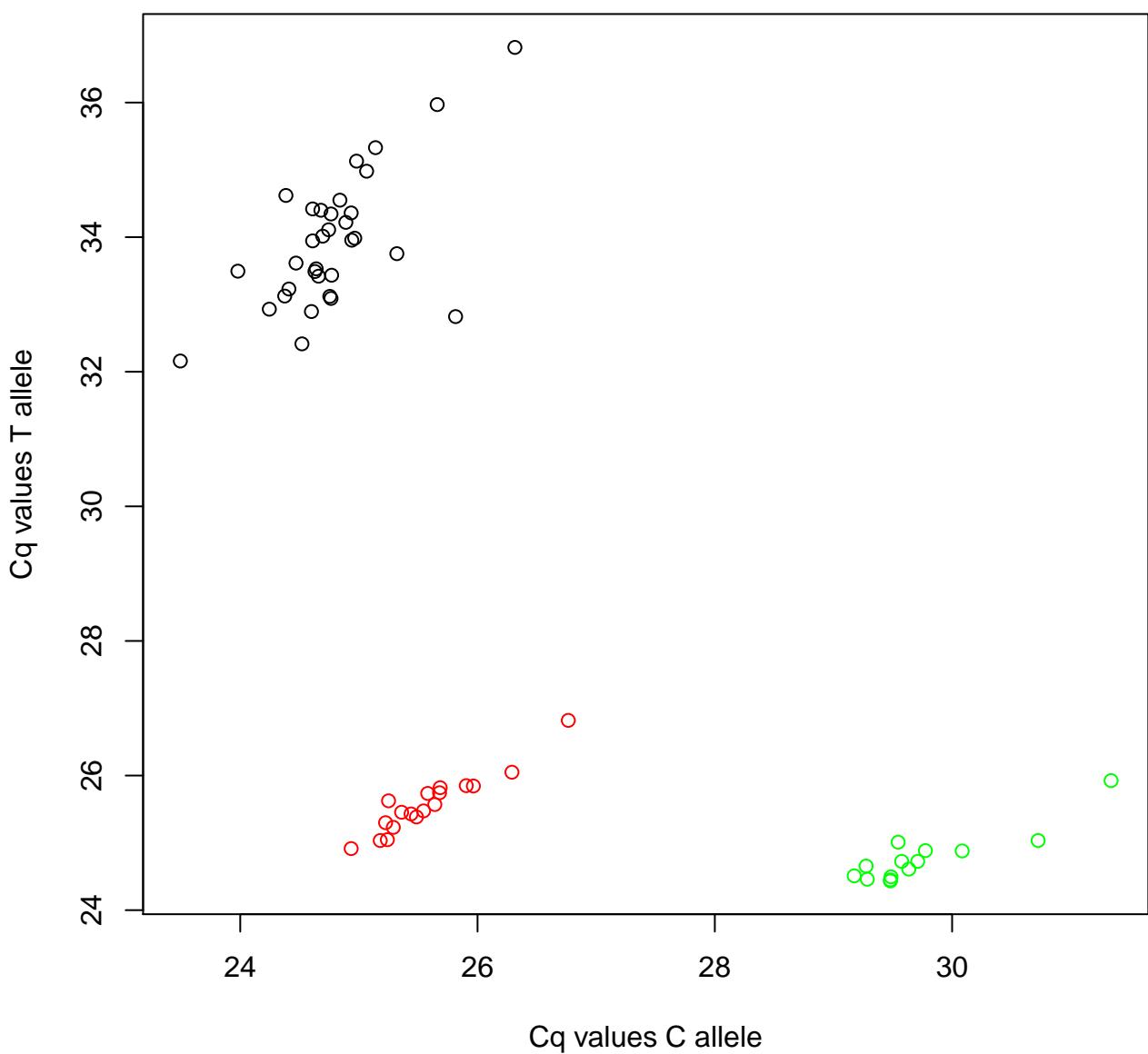
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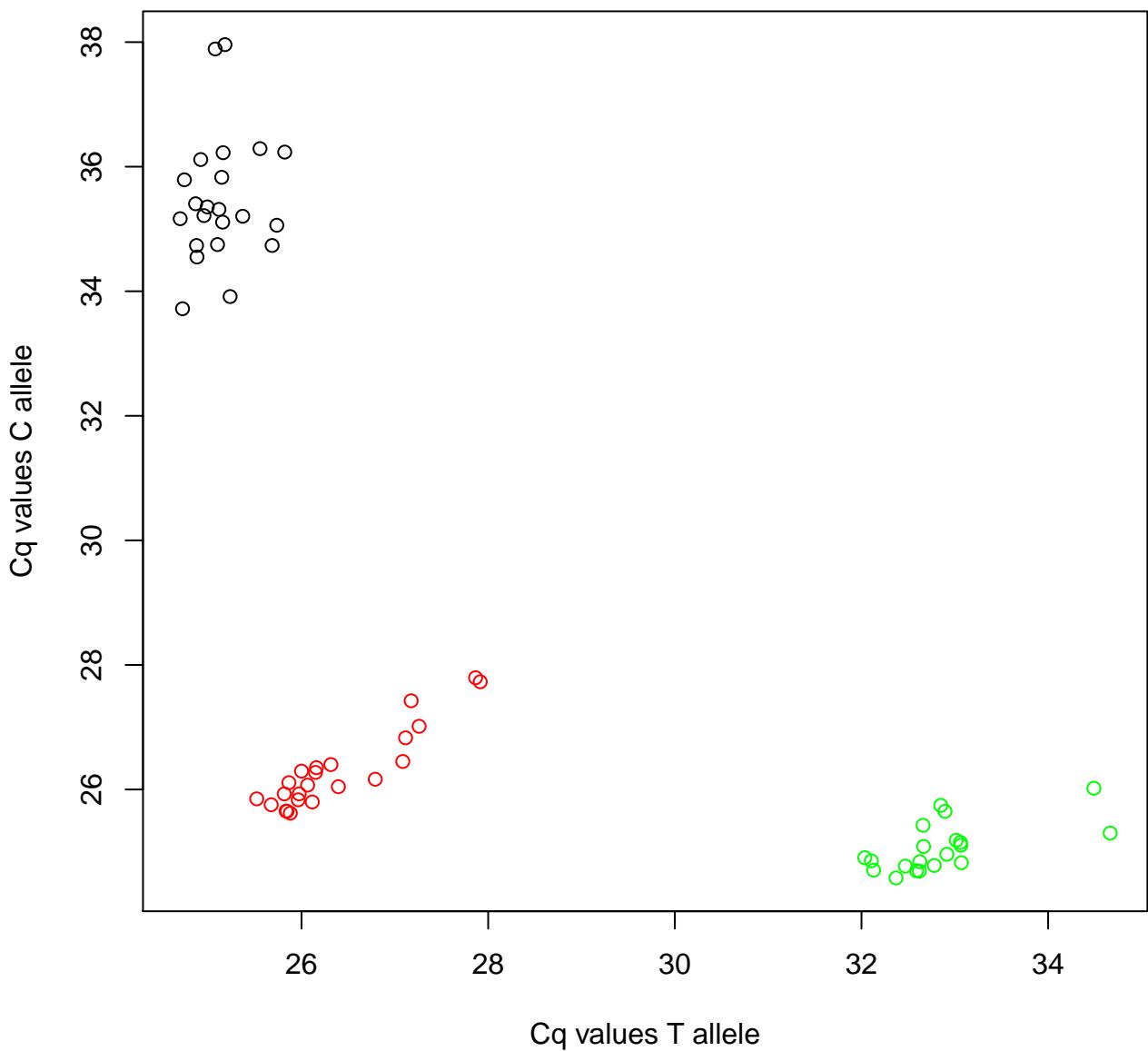
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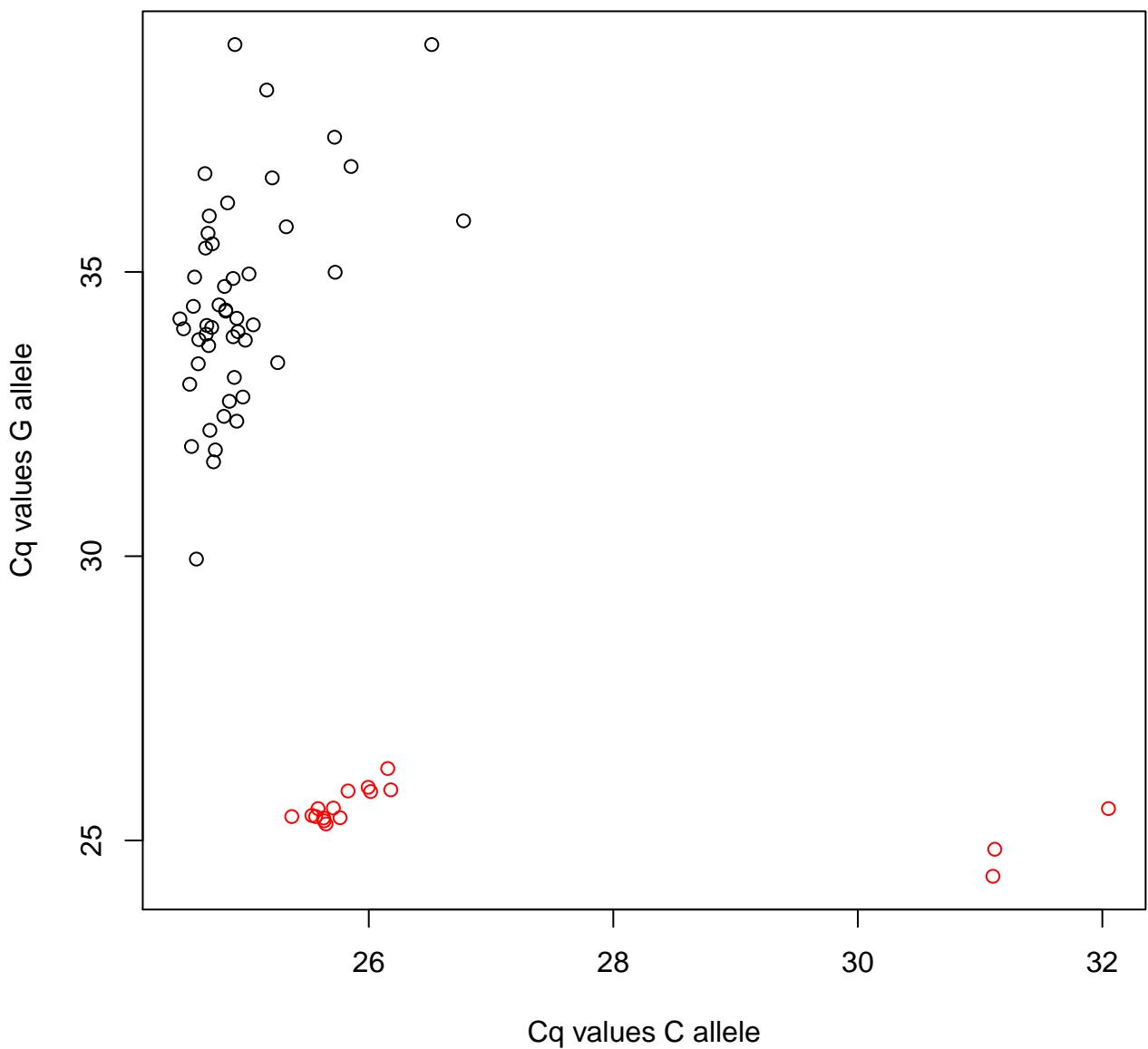
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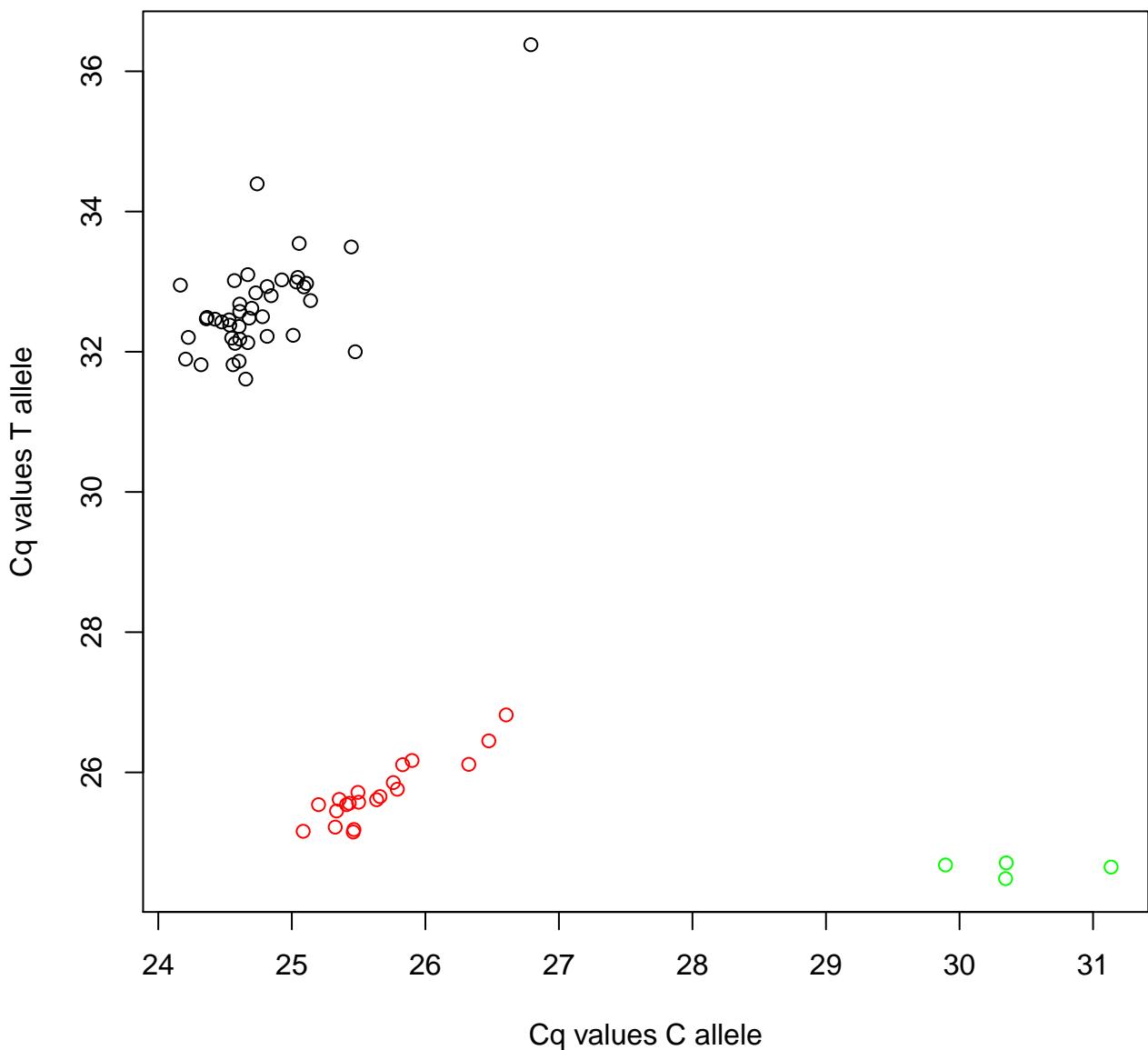
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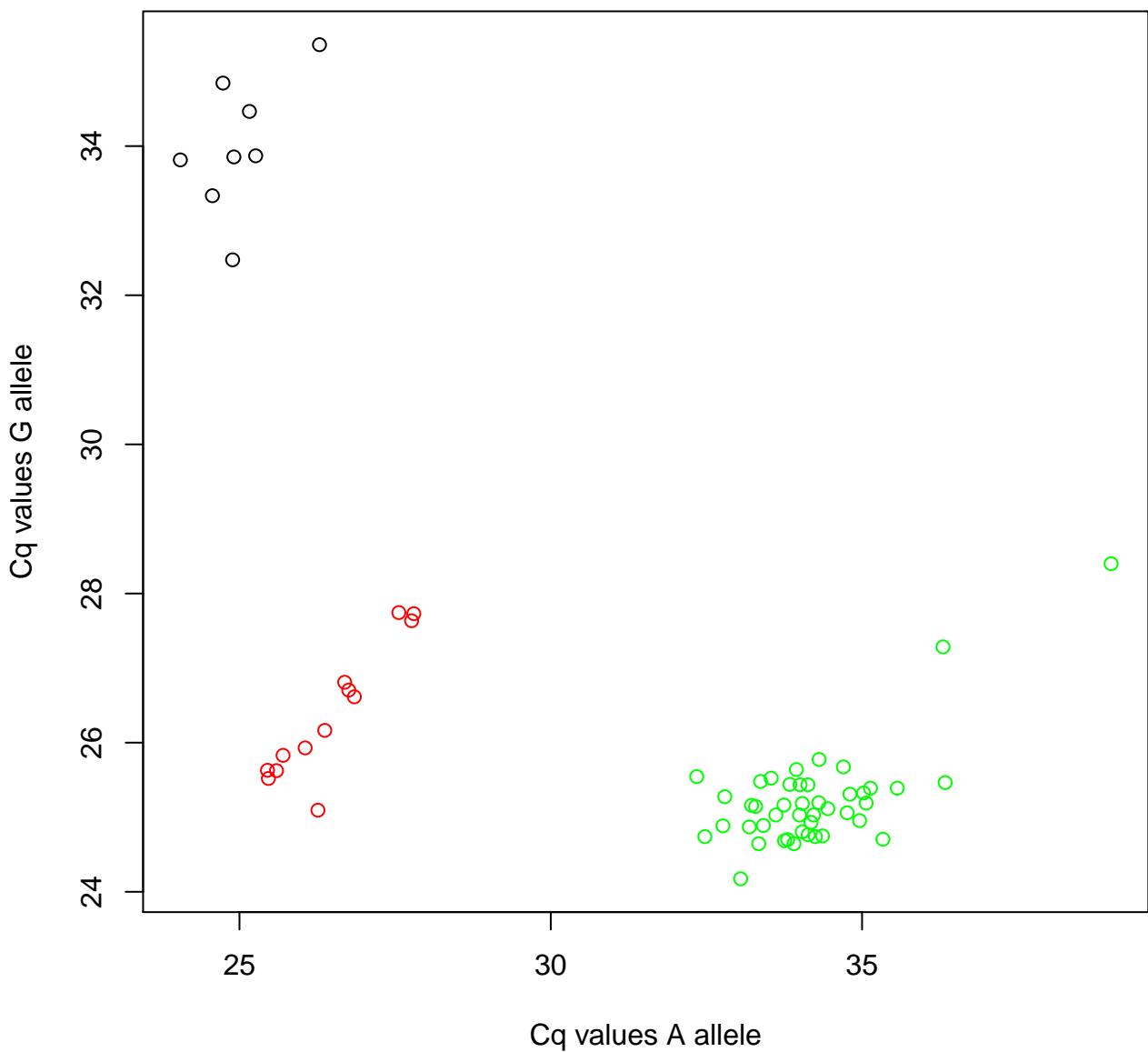
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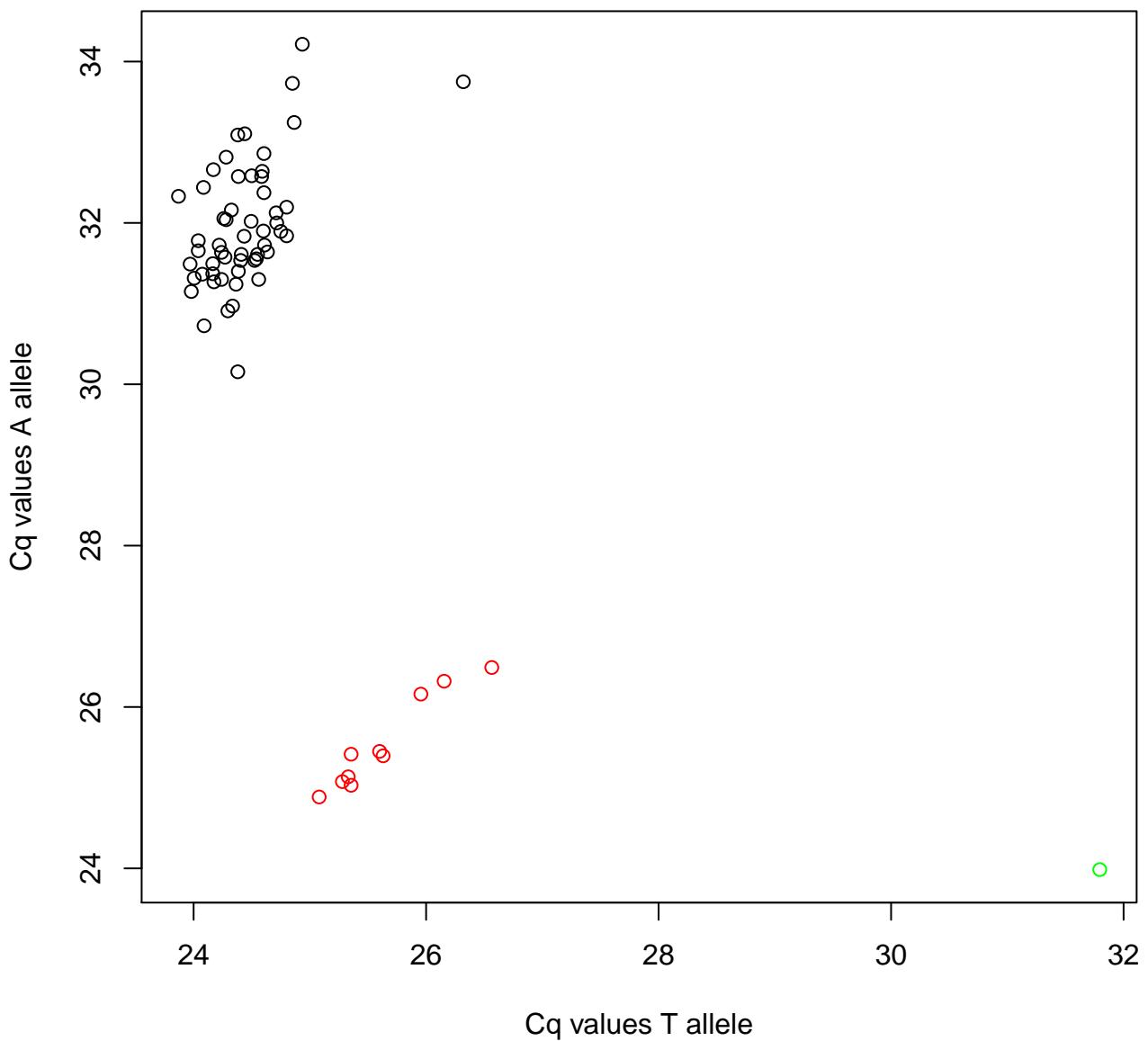
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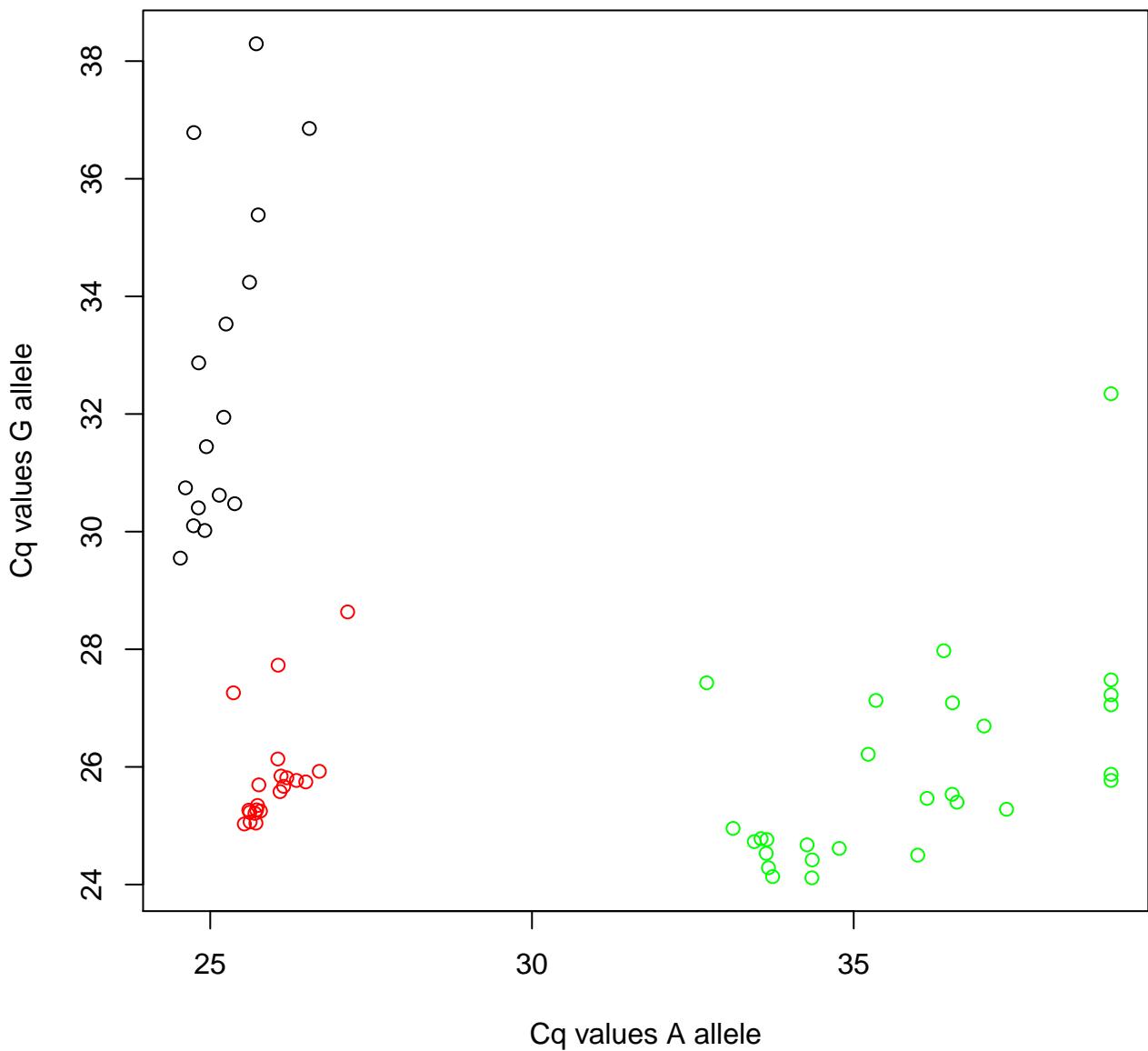
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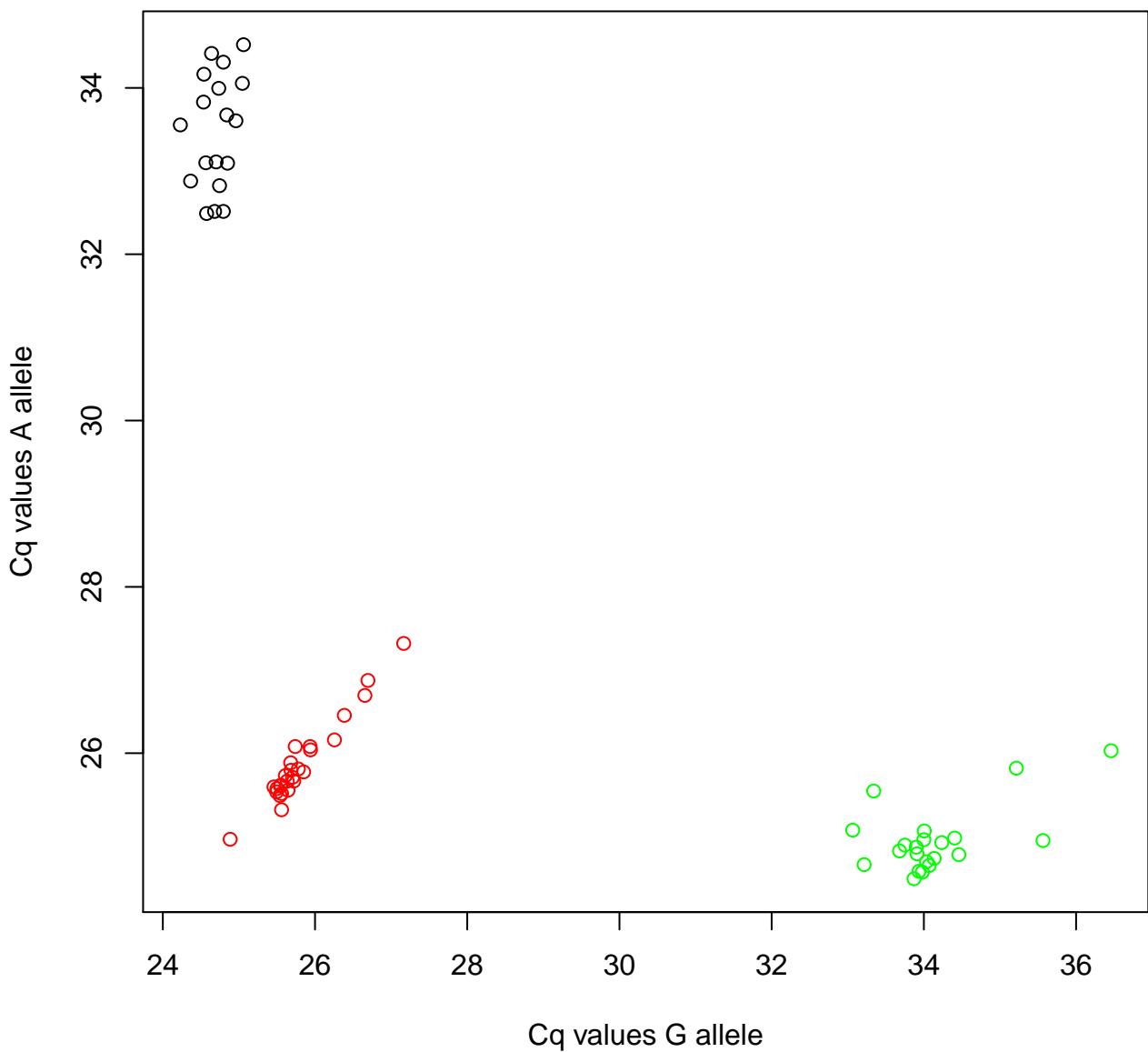
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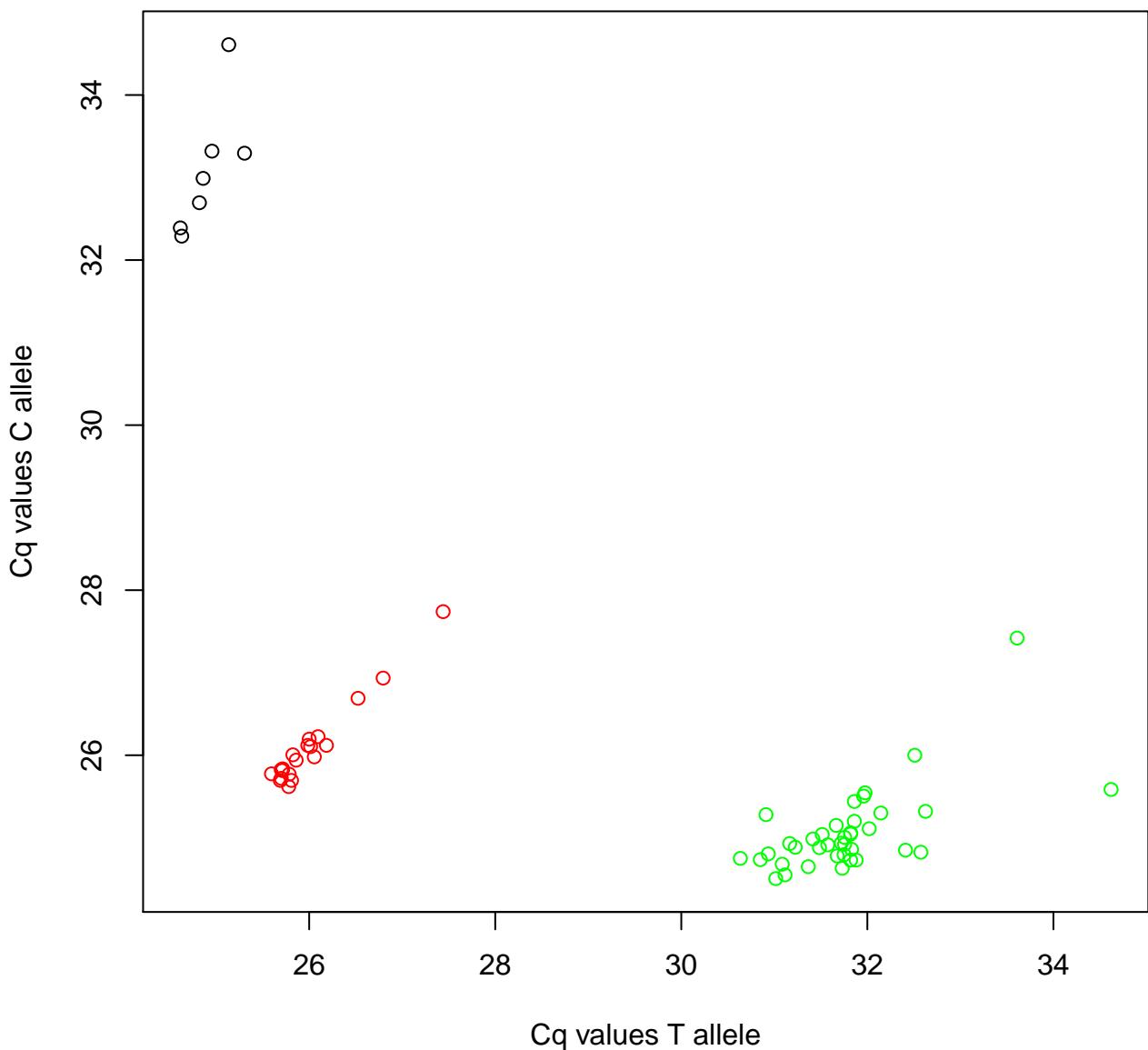
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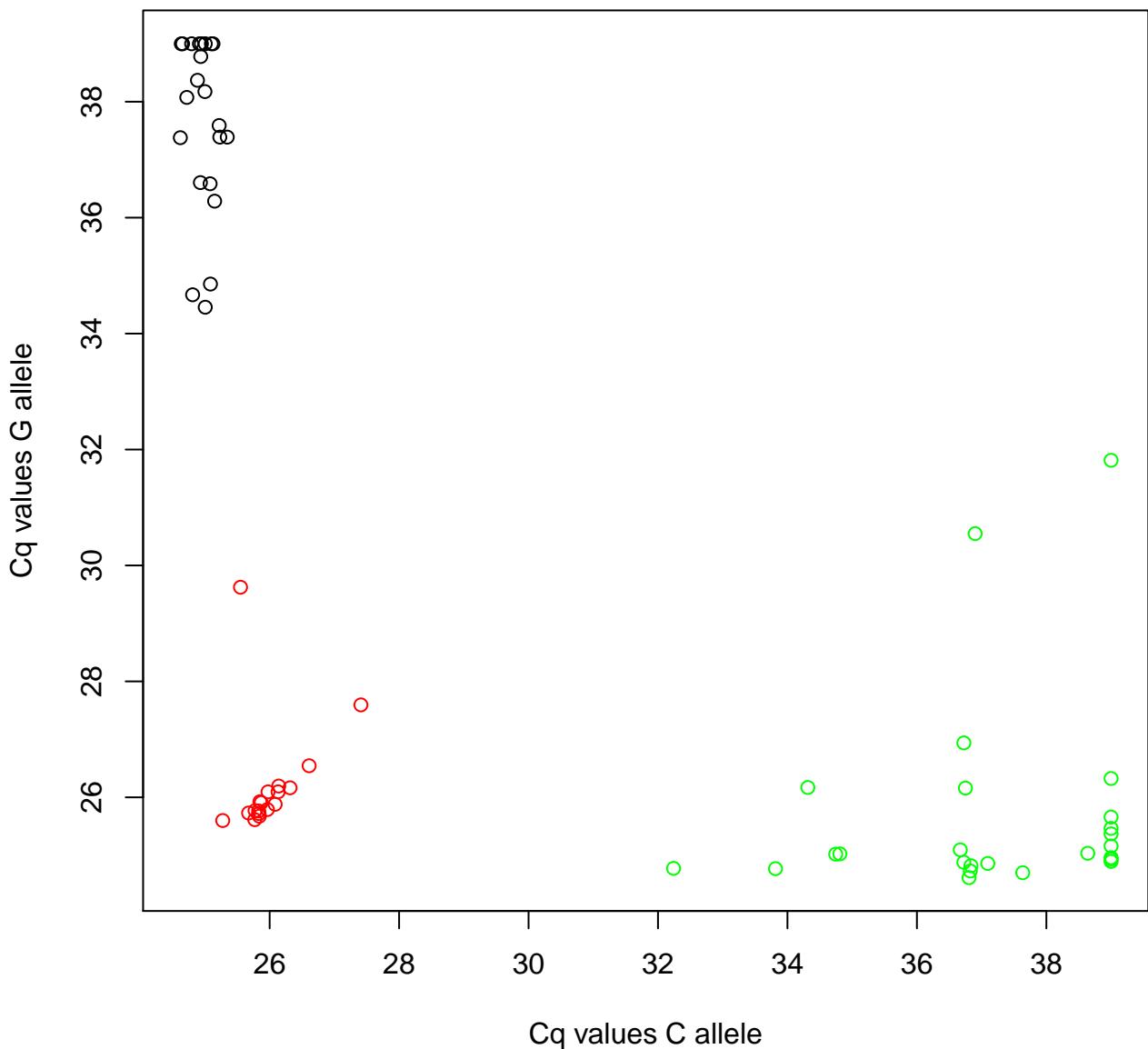
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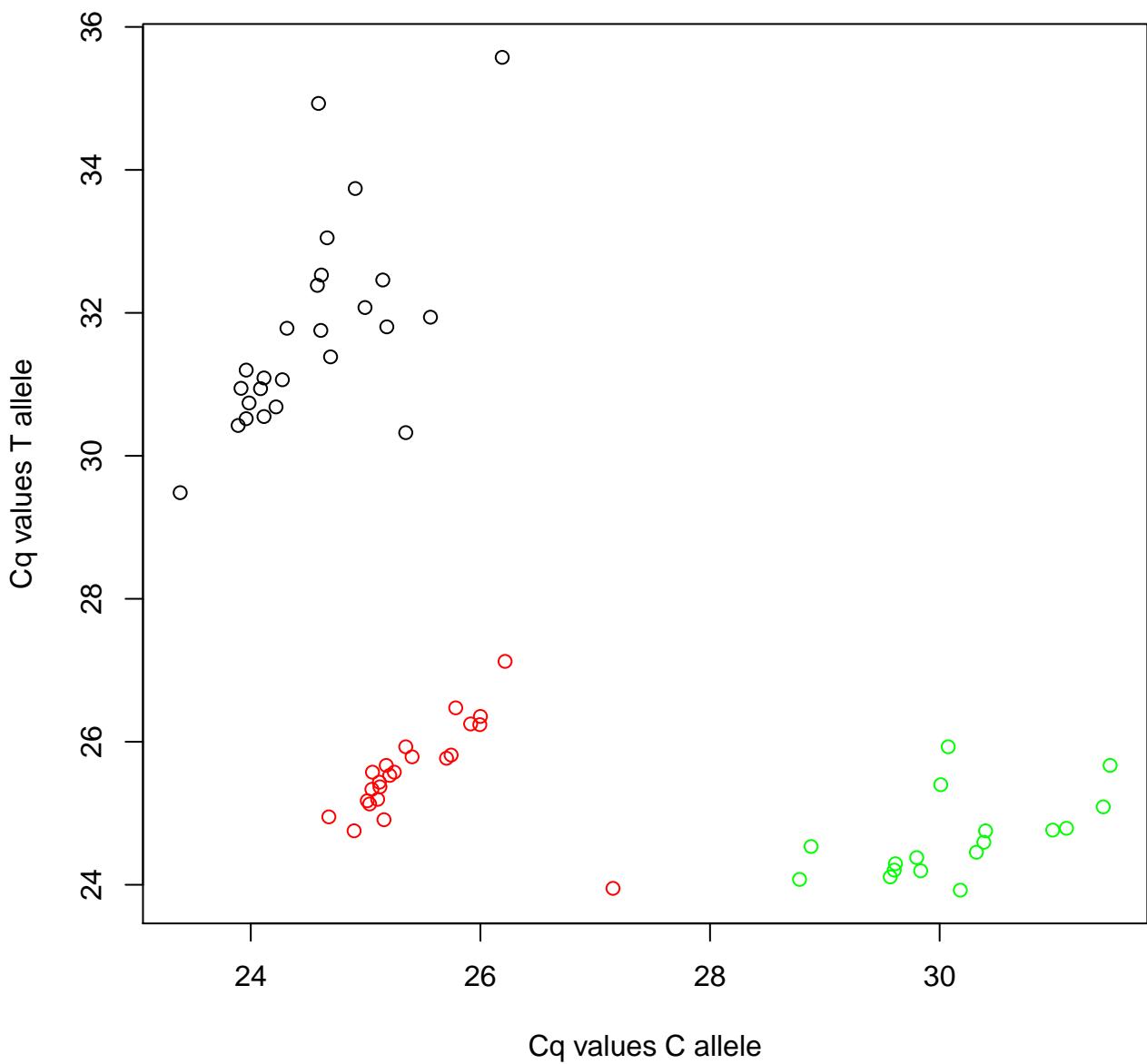
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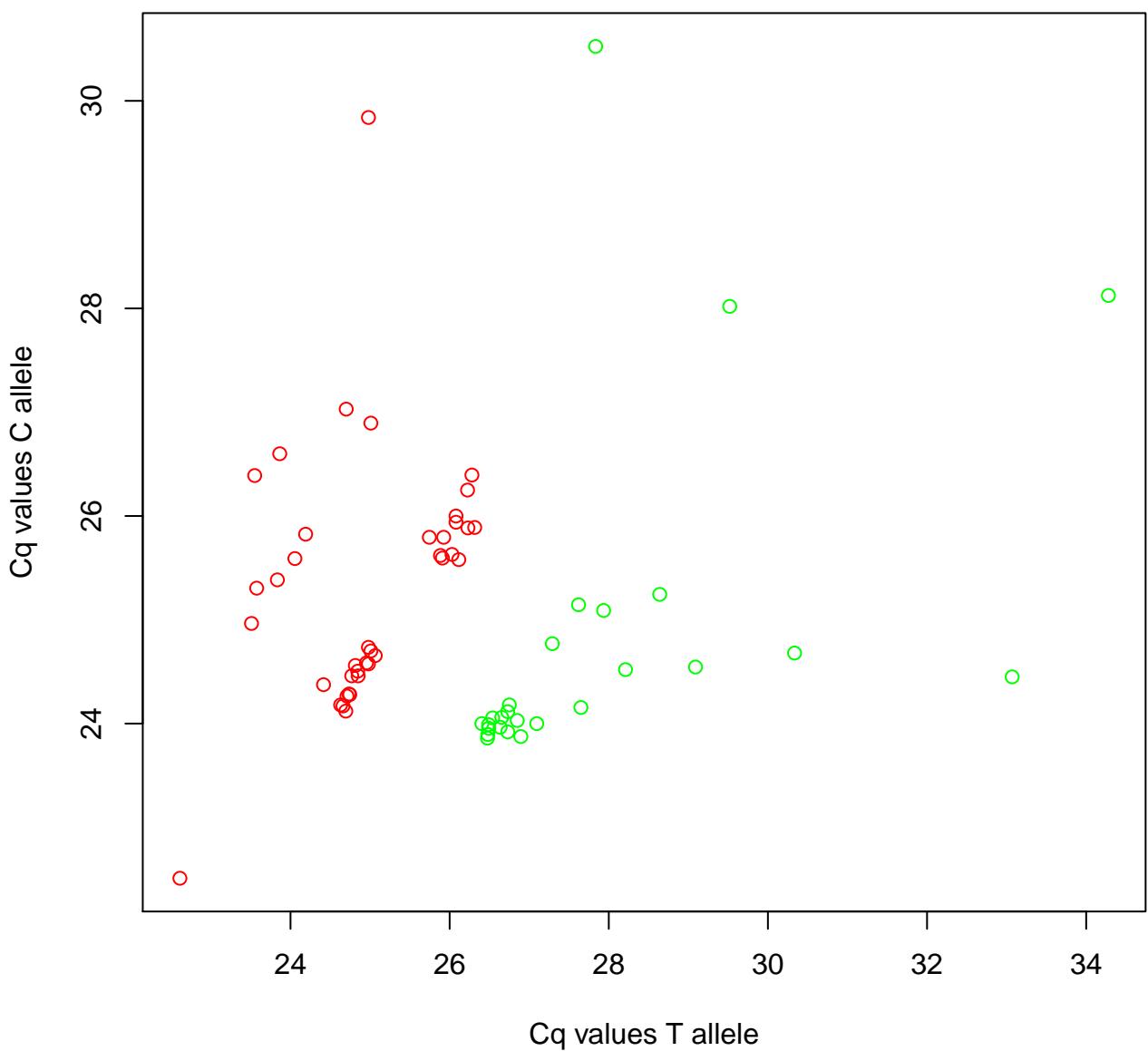
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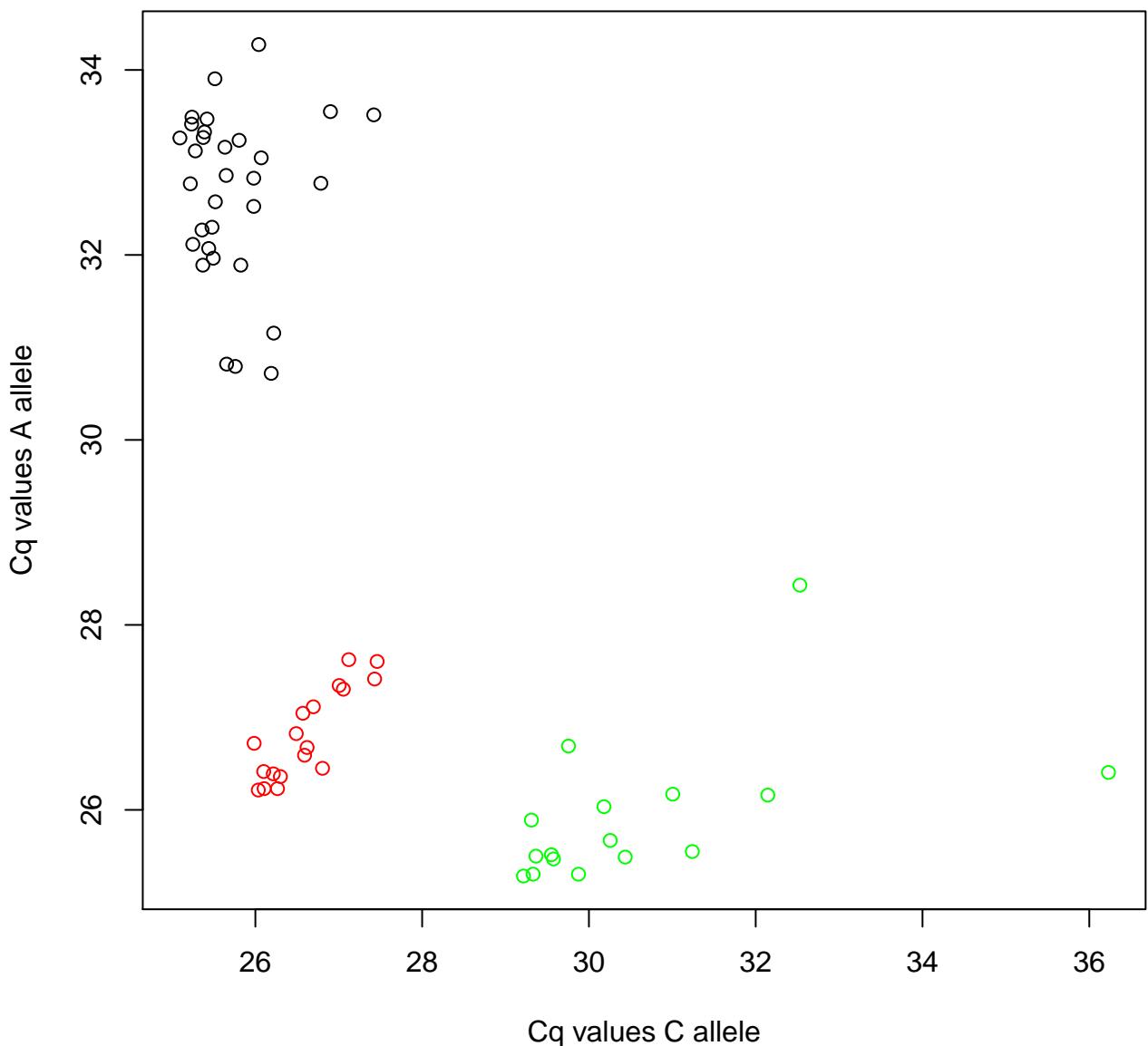
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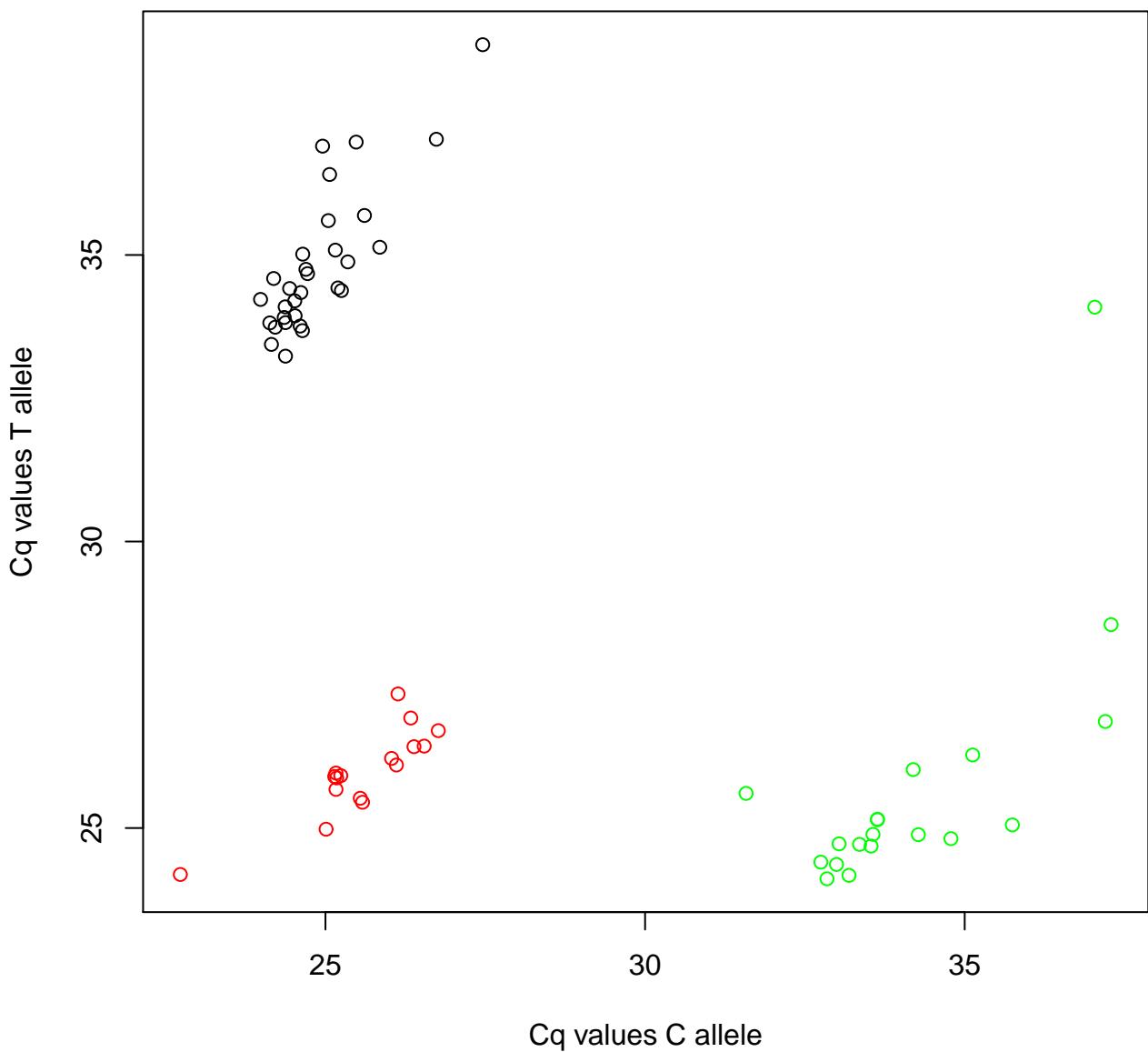
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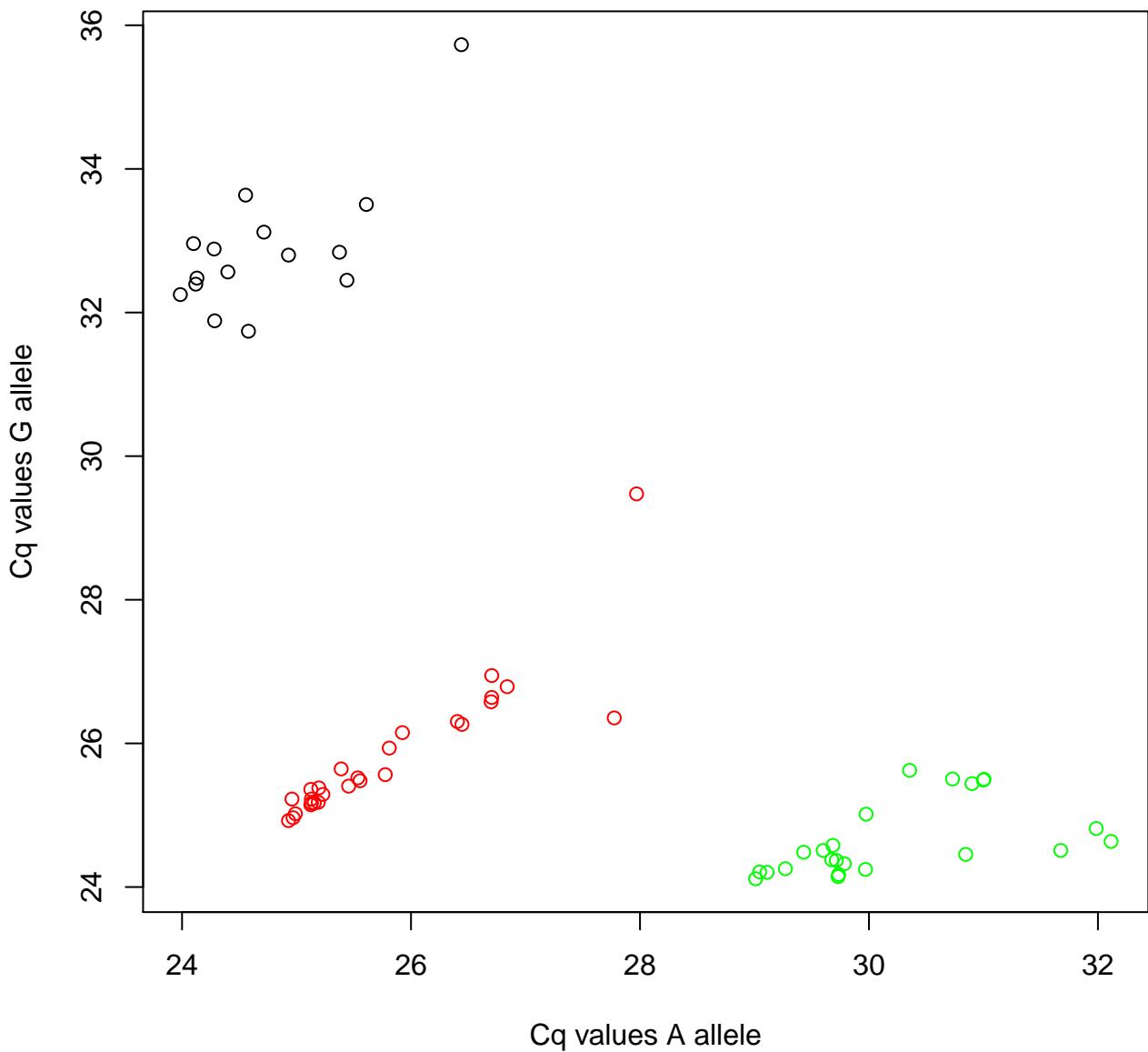
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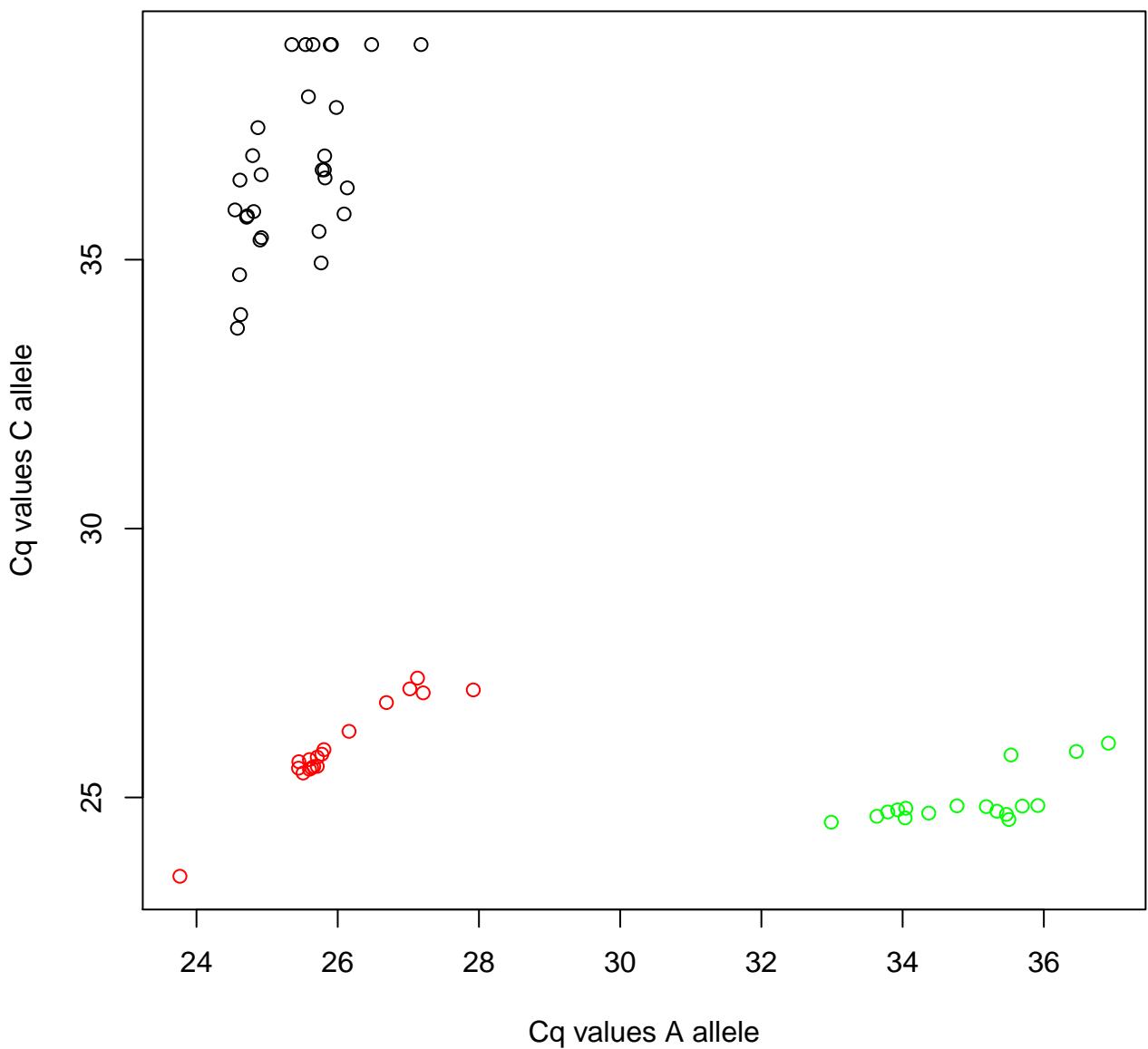
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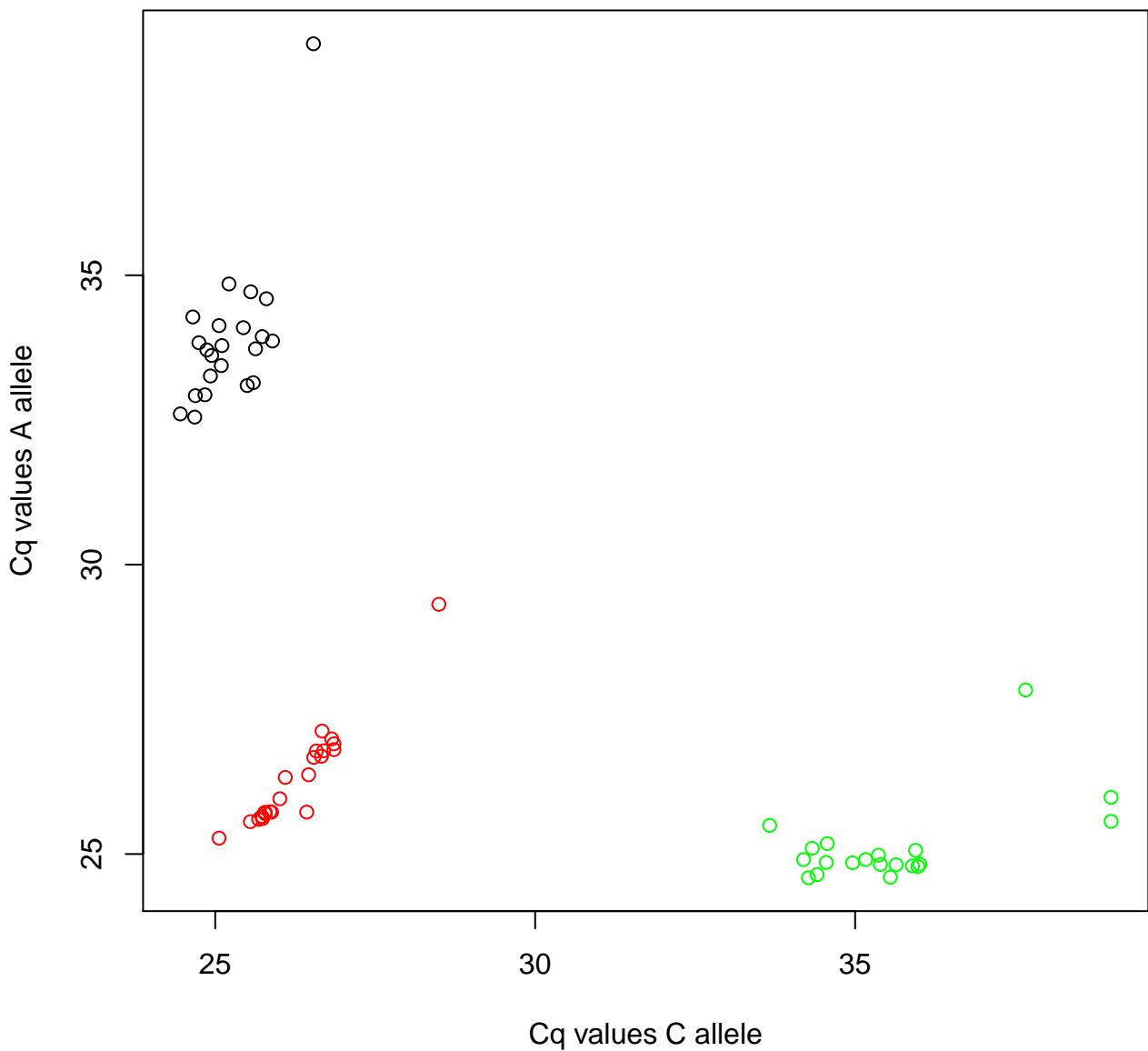
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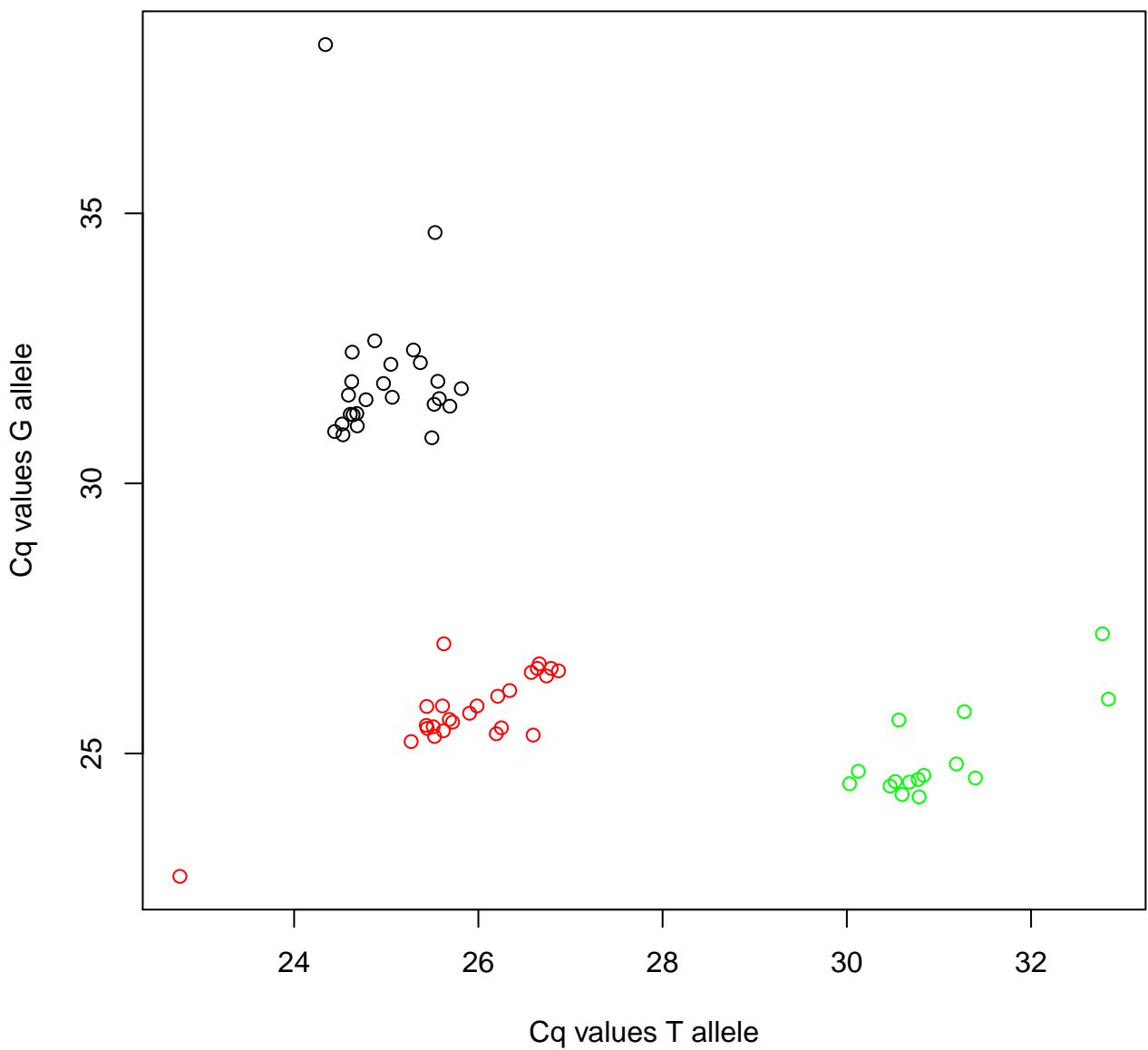
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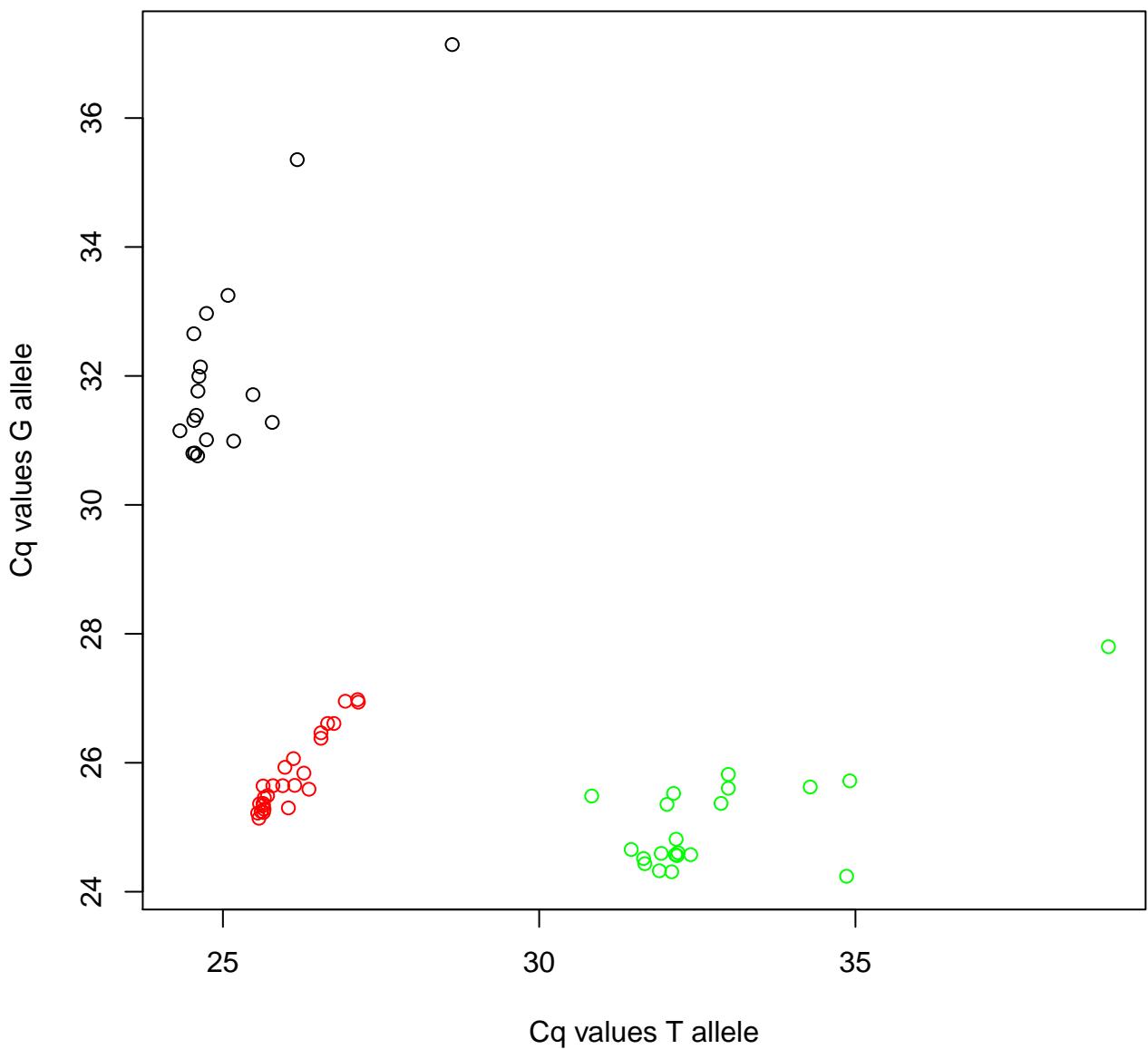
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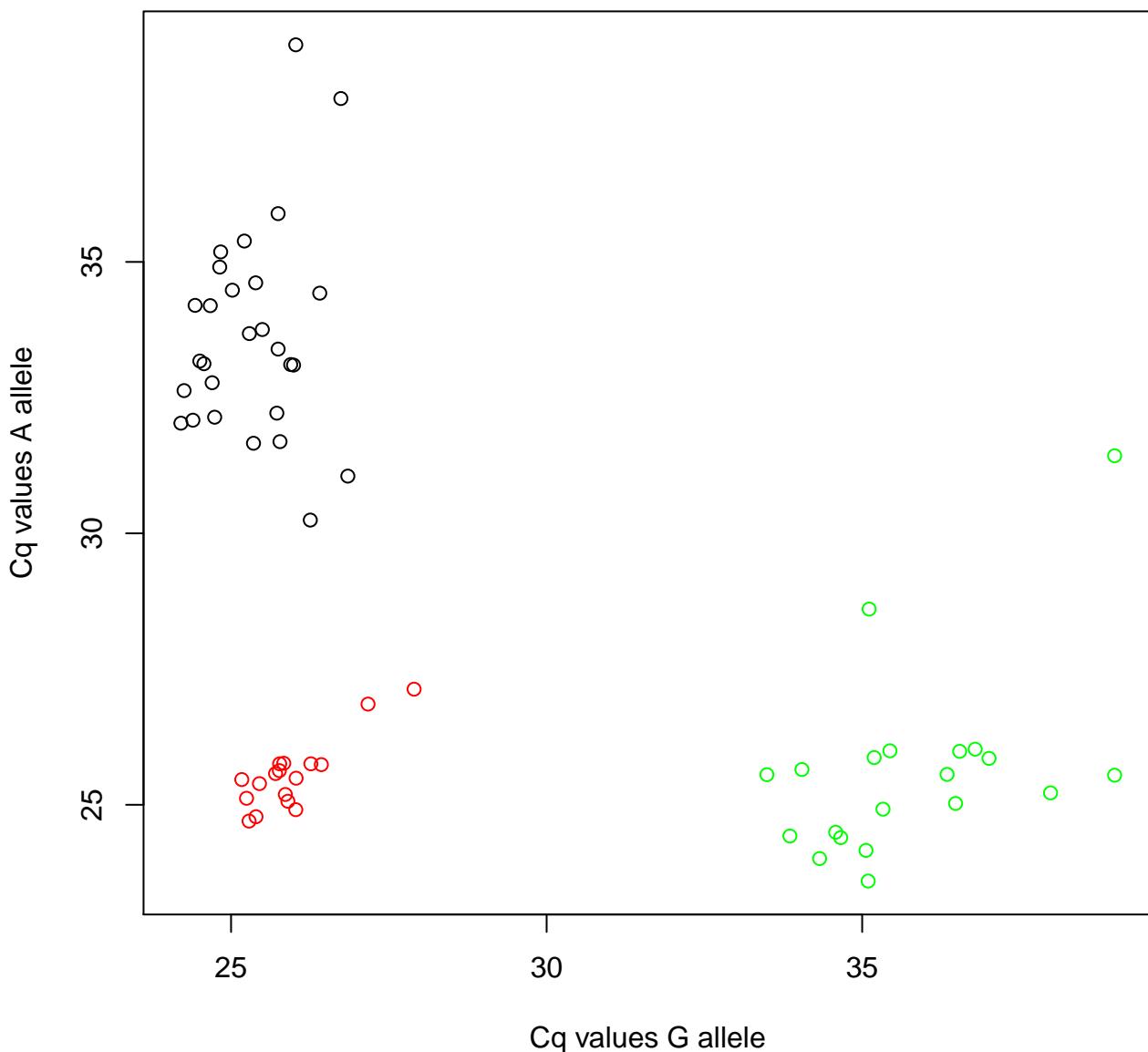
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