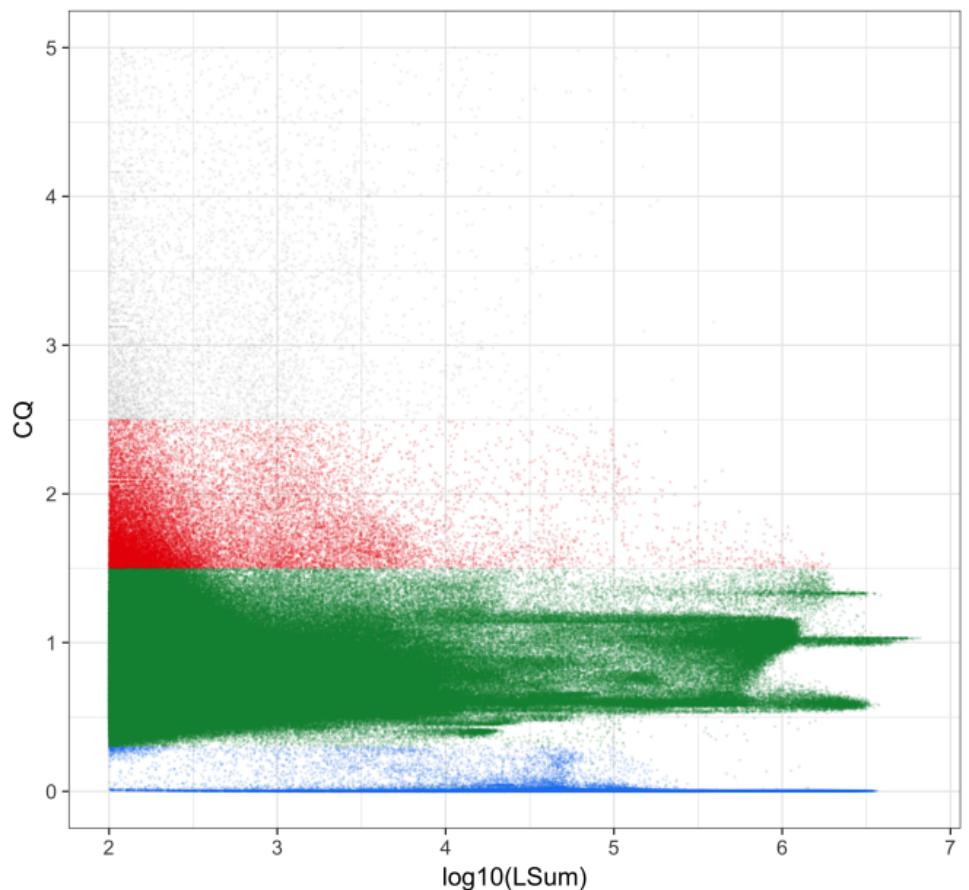


A

● A-bin ● X-bin ● Y-bin ● GA-bin

**B**

● unsuitable kmers ● candidate kmers

