

A

library.txt

| ct | seq |
|----|---------------------------------------|
| 8 | AATTACAGTGAGTTAGCTTACTCATTTCGGCACC... |
| 7 | CATTACGGTGACATAGCTCACTCATTATGCACC... |
| 7 | AATTAATGTGAGTTGGTTCACCTATTAGGGACC... |
| 7 | GATTAATGTGAGTTAACTCACTCATTAGGCACC... |
| 7 | AATTACTGTCTGTTAGCTCACTCATTACTCAGC... |
| 6 | AATTAATGTGAGTTAGTTCACCTCATGAGTACT... |
| 6 | CATTAATGTGAGTTAGCTCACTCATTAGGCACC... |
| 6 | TATTAATGTAAGTTAGCTCACACATAACGCACC... |
| 6 | AATTAATGTGAATGAGCTCACTCATAAGGCACA... |

B

library

| ct | seq |
|-------------|-----|
| library.txt | |

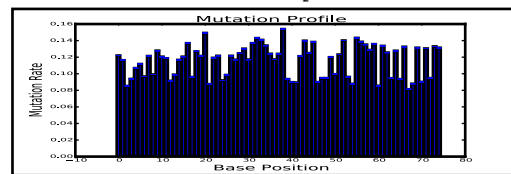
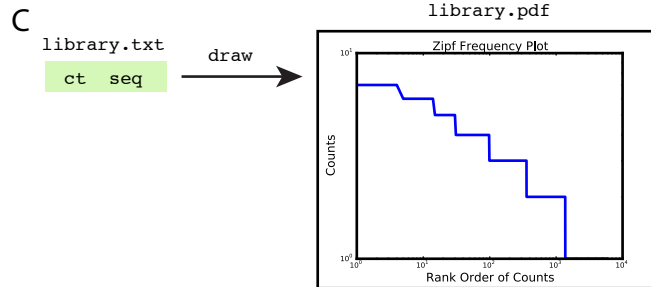
↓ profile_counts

| pos | ct_A | ct_C | ct_G | ct_T |
|------------------------------|------|------|------|------|
| counts profile counts.txt | | | | |

↓ profile_mutrate

| pos | mut | mut_err |
|---------------------------------|-----|---------|
| mutation profile mutrate.txt | | |

↓ draw



D

```
$ sortseq profile_counts -i library.txt -o counts.txt
$ sortseq profile_mutrate -i counts.txt -o mutrate.txt
$ sortseq draw -i library.txt -o library.pdf
$ sortseq draw -i mutrate.txt -o mutrate.pdf
```

Figure 4