

## Report

|                             | MG1_ets           | MG1_sjw           | MG2_ets           | MG2_sjw           | MG3_ets           | MG3_sjw           | MG5_ets          | MG5_sjw           | MG6_ets           | MG6_sjw           | MG7_ets          | MG7_sjw           |
|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|------------------|-------------------|
| # contigs (>= 0 bp)         | 742180            | 737440            | 634081            | 721044            | 989194            | 812928            | 467193           | 483496            | 553114            | 552969            | 606171           | 686407            |
| # contigs (>= 1000 bp)      | 62181             | 130386            | 45320             | 103924            | 43383             | 194389            | 38894            | 77479             | 43046             | 93203             | 35431            | 112913            |
| # contigs (>= 5000 bp)      | 326               | 11153             | 571               | 8962              | 263               | 12311             | 570              | 8330              | 329               | 8903              | 358              | 10035             |
| # contigs (>= 10000 bp)     | 27                | 3637              | 96                | 3068              | 34                | 3023              | 87               | 3107              | 18                | 3222              | 53               | 3426              |
| # contigs (>= 25000 bp)     | 2                 | 844               | 15                | 624               | 1                 | 545               | 8                | 660               | 0                 | 753               | 1                | 684               |
| # contigs (>= 50000 bp)     | 0                 | 288               | 4                 | 168               | 0                 | 156               | 1                | 174               | 0                 | 230               | 0                | 170               |
| Total length (>= 0 bp)      | 416736241         | 653900791         | 344525814         | 573684951         | 499724560         | 784622124         | 265793737        | 427499988         | 308233063         | 494922369         | 320654719        | 589725900         |
| Total length (>= 1000 bp)   | 90662114          | 357029056         | 71094729          | 275179562         | 64177111          | 466117292         | 62878056         | 228987580         | 65121988          | 269531025         | 53232165         | 306639948         |
| Total length (>= 5000 bp)   | 2331274           | 137228238         | 4753363           | 105909038         | 1943781           | 127787347         | 4571516          | 102758673         | 2169081           | 114500973         | 2697065          | 119820636         |
| Total length (>= 10000 bp)  | 421097            | 86312833          | 1655145           | 65753380          | 477598            | 66198937          | 1435253          | 66994795          | 215166            | 76065973          | 723233           | 75133601          |
| Total length (>= 25000 bp)  | 64499             | 45662384          | 595868            | 29868143          | 37792             | 30288227          | 299921           | 31156031          | 0                 | 39064245          | 32111            | 34453466          |
| Total length (>= 50000 bp)  | 0                 | 26786677          | 209208            | 14529311          | 0                 | 17231559          | 55785            | 14602443          | 0                 | 21551967          | 0                | 17105399          |
| # contigs                   | 742180            | 737440            | 634081            | 721044            | 989194            | 812928            | 467193           | 483496            | 553114            | 552969            | 606171           | 686407            |
| Largest contig              | 38041             | 504904            | 57321             | 349741            | 37792             | 2036122           | 55785            | 588024            | 18080             | 571027            | 32111            | 935935            |
| Total length                | 416736241         | 653900791         | 344525814         | 573684951         | 499724560         | 784622124         | 265793737        | 427499988         | 308233063         | 494922369         | 320654719        | 589725900         |
| Reference length            | 13673396          | 13673396          | 13673396          | 13673396          | 13673396          | 13673396          | 13673396         | 13673396          | 13673396          | 13673396          | 13673396         | 13673396          |
| N50                         | 583               | 1184              | 548               | 935               | 499               | 1330              | 580              | 1144              | 568               | 1183              | 528              | 1072              |
| N75                         | 408               | 547               | 392               | 494               | 384               | 634               | 405              | 536               | 403               | 544               | 390              | 531               |
| L50                         | 221333            | 102681            | 188270            | 116000            | 328968            | 130116            | 134163           | 63214             | 165820            | 72860             | 191608           | 101528            |
| L75                         | 437358            | 317154            | 376351            | 335142            | 616298            | 349802            | 273022           | 207421            | 328627            | 236042            | 369893           | 306521            |
| # misassemblies             | 69                | 148               | 31                | 101               | 36                | 97                | 27               | 65                | 61                | 165               | 49               | 147               |
| # misassembled contigs      | 69                | 138               | 31                | 96                | 36                | 88                | 26               | 62                | 59                | 160               | 49               | 140               |
| Misassembled contigs length | 65734             | 507378            | 22531             | 452831            | 34178             | 567110            | 18817            | 185621            | 52041             | 568263            | 33774            | 485806            |
| # local misassemblies       | 34                | 148               | 21                | 92                | 17                | 94                | 9                | 30                | 32                | 129               | 23               | 124               |
| # scaffold gap ext. mis.    | 0                 | 0                 | 0                 | 0                 | 0                 | 0                 | 0                | 0                 | 0                 | 0                 | 0                | 0                 |
| # scaffold gap loc. mis.    | 0                 | 0                 | 0                 | 0                 | 0                 | 0                 | 0                | 0                 | 0                 | 0                 | 0                | 0                 |
| # unaligned mis. contigs    | 13                | 140               | 9                 | 81                | 22                | 74                | 8                | 38                | 19                | 143               | 13               | 103               |
| # unaligned contigs         | 728766 + 193 part | 726123 + 931 part | 623907 + 111 part | 712977 + 548 part | 981204 + 101 part | 807087 + 505 part | 460912 + 62 part | 479411 + 285 part | 537555 + 155 part | 541446 + 847 part | 591791 + 84 part | 676242 + 742 part |
| Unaligned length            | 407877015         | 641697131         | 338527460         | 565224859         | 494692629         | 777917620         | 262218817        | 422666782         | 298281998         | 481519134         | 312200759        | 577190103         |
| Genome fraction (%)         | 63.202            | 75.446            | 45.452            | 56.867            | 39.548            | 46.910            | 30.724           | 39.276            | 69.194            | 81.770            | 62.267           | 80.959            |
| Duplication ratio           | 1.189             | 1.353             | 1.154             | 1.270             | 1.150             | 1.243             | 1.105            | 1.113             | 1.201             | 1.368             | 1.136            | 1.283             |
| # N's per 100 kbp           | 0.00              | 0.00              | 0.00              | 0.00              | 0.00              | 0.00              | 0.00             | 0.00              | 0.00              | 0.00              | 0.00             | 0.00              |
| # mismatches per 100 kbp    | 1906.38           | 2457.18           | 1805.80           | 2304.15           | 1805.17           | 2293.57           | 1635.48          | 1894.38           | 1893.10           | 2458.48           | 1853.16          | 2354.71           |
| # indels per 100 kbp        | 23.33             | 37.50             | 21.93             | 36.83             | 23.98             | 43.35             | 17.94            | 30.35             | 19.92             | 34.17             | 18.59            | 33.75             |
| Largest alignment           | 7851              | 29599             | 4290              | 33804             | 4025              | 37919             | 4627             | 41962             | 7657              | 40667             | 6491             | 33492             |
| Total aligned length        | 8326124           | 11902907          | 5530209           | 8249620           | 4638983           | 6542176           | 3313438          | 4705178           | 9242641           | 13101474          | 7907174          | 12254737          |

All statistics are based on contigs of size >= 100 bp, unless otherwise noted (e.g., "# contigs (>= 0 bp)" and "Total length (>= 0 bp)" include all contigs).

## Misassemblies report

|                                  | MG1_ets | MG1_sjw | MG2_ets | MG2_sjw | MG3_ets | MG3_sjw | MG5_ets | MG5_sjw | MG6_ets | MG6_sjw | MG7_ets | MG7_sjw |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| # misassemblies                  | 69      | 148     | 31      | 101     | 36      | 97      | 27      | 65      | 61      | 165     | 49      | 147     |
| # contig misassemblies           | 69      | 148     | 31      | 101     | 36      | 97      | 27      | 65      | 61      | 165     | 49      | 147     |
| # c. relocations                 | 37      | 75      | 16      | 49      | 18      | 43      | 8       | 25      | 29      | 84      | 19      | 75      |
| # c. translocations              | 23      | 47      | 9       | 40      | 14      | 34      | 10      | 28      | 19      | 49      | 16      | 50      |
| # c. inversions                  | 3       | 13      | 2       | 7       | 3       | 8       | 7       | 5       | 3       | 17      | 7       | 11      |
| # c. interspecies translocations | 6       | 13      | 4       | 5       | 1       | 12      | 2       | 7       | 10      | 15      | 7       | 11      |
| # scaffold misassemblies         | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| # s. relocations                 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| # s. translocations              | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| # s. inversions                  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| # s. interspecies translocations | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| # misassembled contigs           | 69      | 138     | 31      | 96      | 36      | 88      | 26      | 62      | 59      | 160     | 49      | 140     |
| Misassembled contigs length      | 65734   | 507378  | 22531   | 452831  | 34178   | 567110  | 18817   | 185621  | 52041   | 568263  | 33774   | 485806  |
| # possibly misassembled contigs  | 187     | 812     | 109     | 480     | 94      | 440     | 57      | 258     | 149     | 733     | 82      | 659     |
| # possible misassemblies         | 190     | 966     | 114     | 585     | 98      | 560     | 58      | 318     | 151     | 858     | 82      | 788     |
| # local misassemblies            | 34      | 148     | 21      | 92      | 17      | 94      | 9       | 30      | 32      | 129     | 23      | 124     |
| # scaffold gap ext. mis.         | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| # scaffold gap loc. mis.         | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| # unaligned mis. contigs         | 13      | 140     | 9       | 81      | 22      | 74      | 8       | 38      | 19      | 143     | 13      | 103     |
| # mismatches                     | 164638  | 253318  | 112154  | 179045  | 97552   | 147019  | 68663   | 101667  | 178991  | 274696  | 157676  | 260491  |
| # indels                         | 2015    | 3866    | 1362    | 2862    | 1296    | 2779    | 753     | 1629    | 1883    | 3818    | 1582    | 3734    |
| # indels (<= 5 bp)               | 1906    | 3613    | 1286    | 2673    | 1224    | 2605    | 717     | 1535    | 1750    | 3540    | 1473    | 3459    |
| # indels (> 5 bp)                | 109     | 253     | 76      | 189     | 72      | 174     | 36      | 94      | 133     | 278     | 109     | 275     |
| Indels length                    | 4024    | 9366    | 2876    | 7119    | 2862    | 6969    | 1600    | 3854    | 4371    | 9928    | 3429    | 9703    |

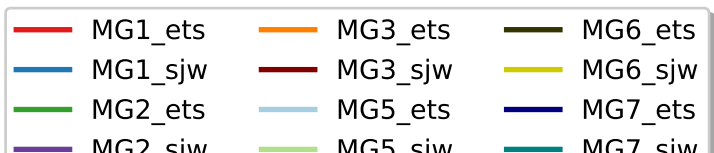
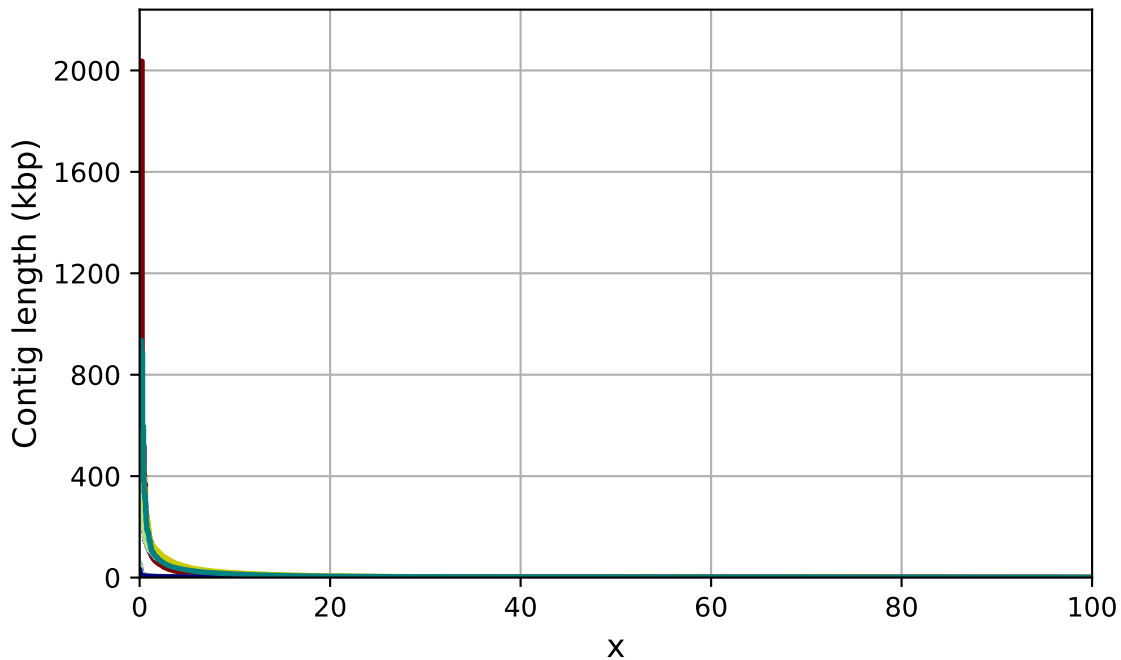
All statistics are based on contigs of size  $\geq 100$  bp, unless otherwise noted (e.g., "# contigs ( $\geq 0$  bp)" and "Total length ( $\geq 0$  bp)" include all contigs).

## Unaligned report

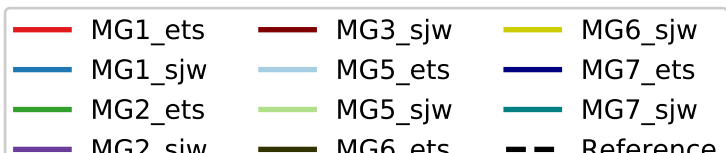
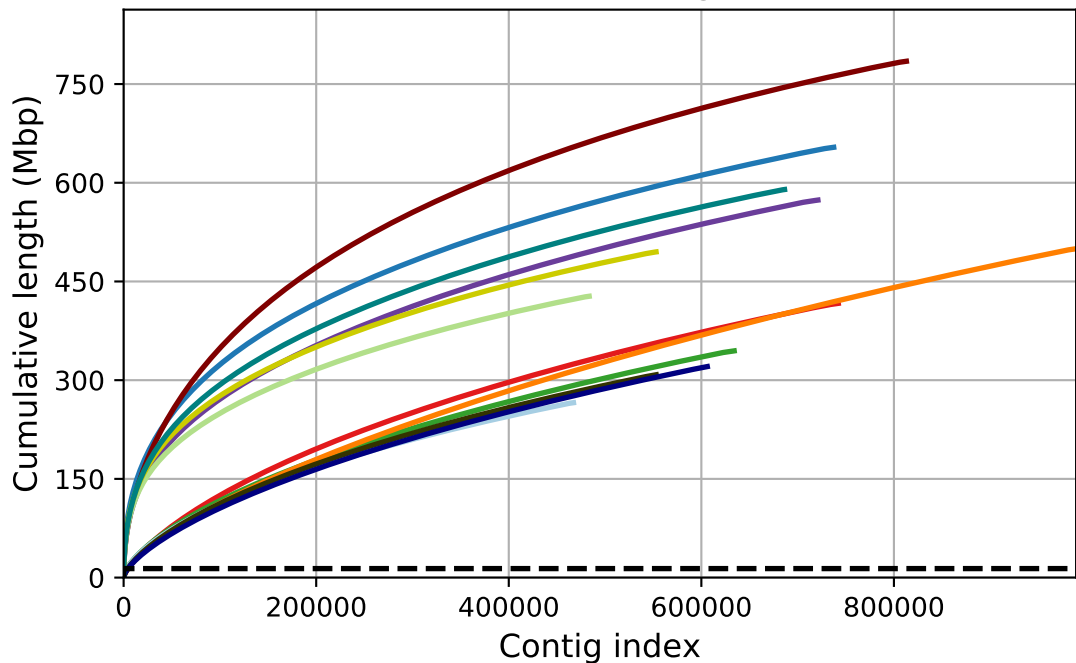
|                               | MG1_ets   | MG1_sjw   | MG2_ets   | MG2_sjw   | MG3_ets   | MG3_sjw   | MG5_ets   | MG5_sjw   | MG6_ets   | MG6_sjw   | MG7_ets   | MG7_sjw   |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| # fully unaligned contigs     | 728766    | 726123    | 623907    | 712977    | 981204    | 807087    | 460912    | 479411    | 537555    | 541446    | 591791    | 676242    |
| Fully unaligned length        | 407691529 | 637666173 | 338437560 | 562804992 | 494597962 | 773248418 | 262161598 | 420250861 | 298134597 | 477200330 | 312136624 | 574333428 |
| # partially unaligned contigs | 193       | 931       | 111       | 548       | 101       | 505       | 62        | 285       | 155       | 847       | 84        | 742       |
| Partially unaligned length    | 185486    | 4030958   | 89900     | 2419867   | 94667     | 4669202   | 57219     | 2415921   | 147401    | 4318804   | 64135     | 2856675   |
| # N's                         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |

All statistics are based on contigs of size  $\geq 100$  bp, unless otherwise noted (e.g., "# contigs ( $\geq 0$  bp)" and "Total length ( $\geq 0$  bp)" include all contigs).

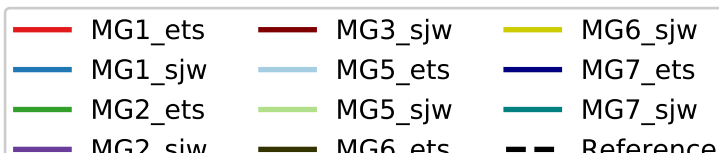
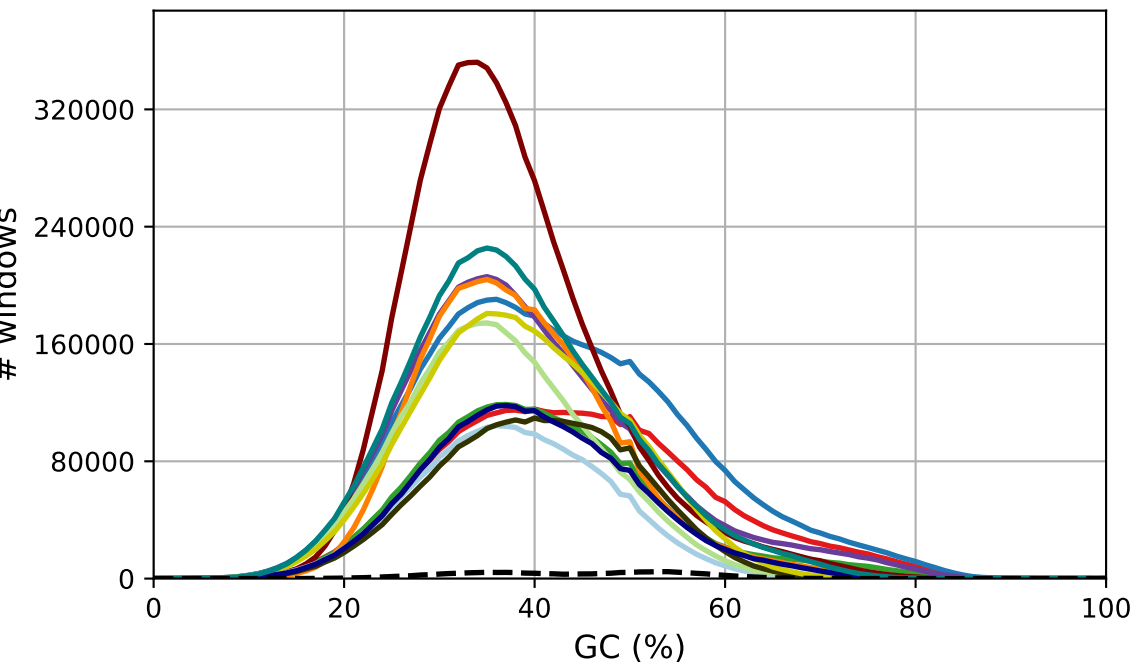
Nx



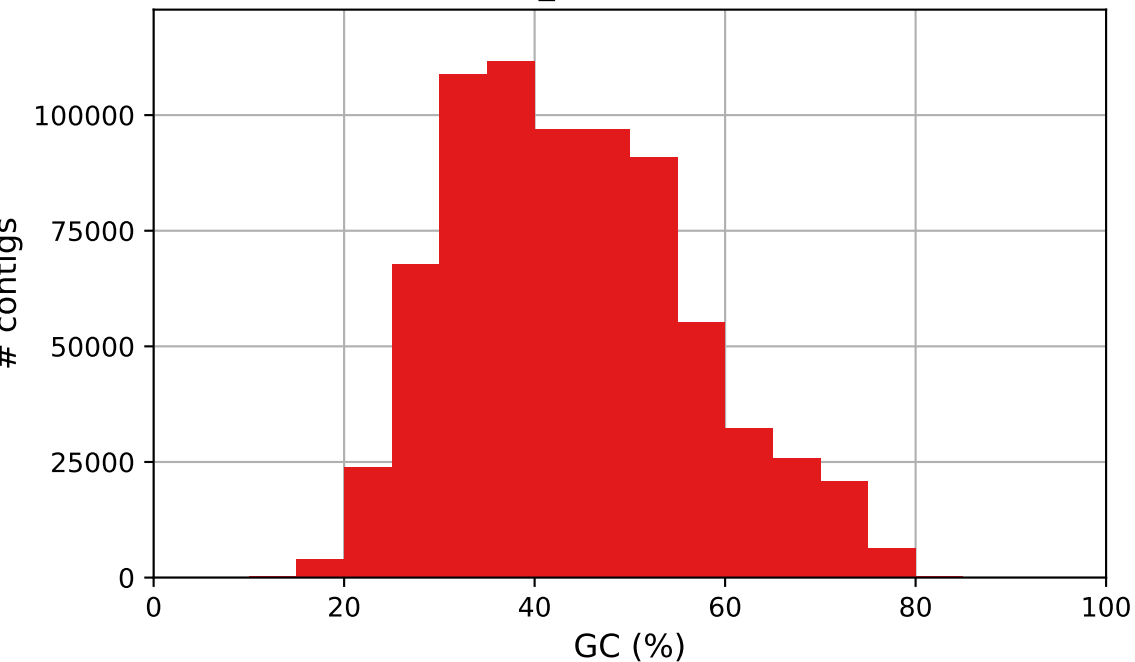
### Cumulative length



GC content

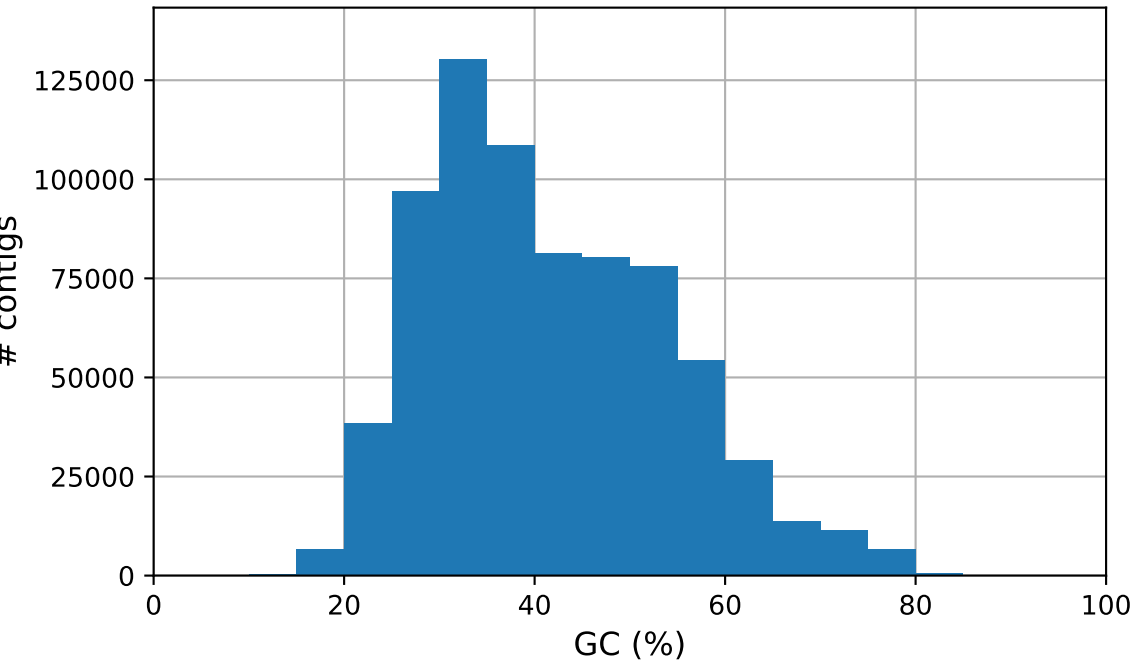


MG1\_ets GC content



MG1\_ets

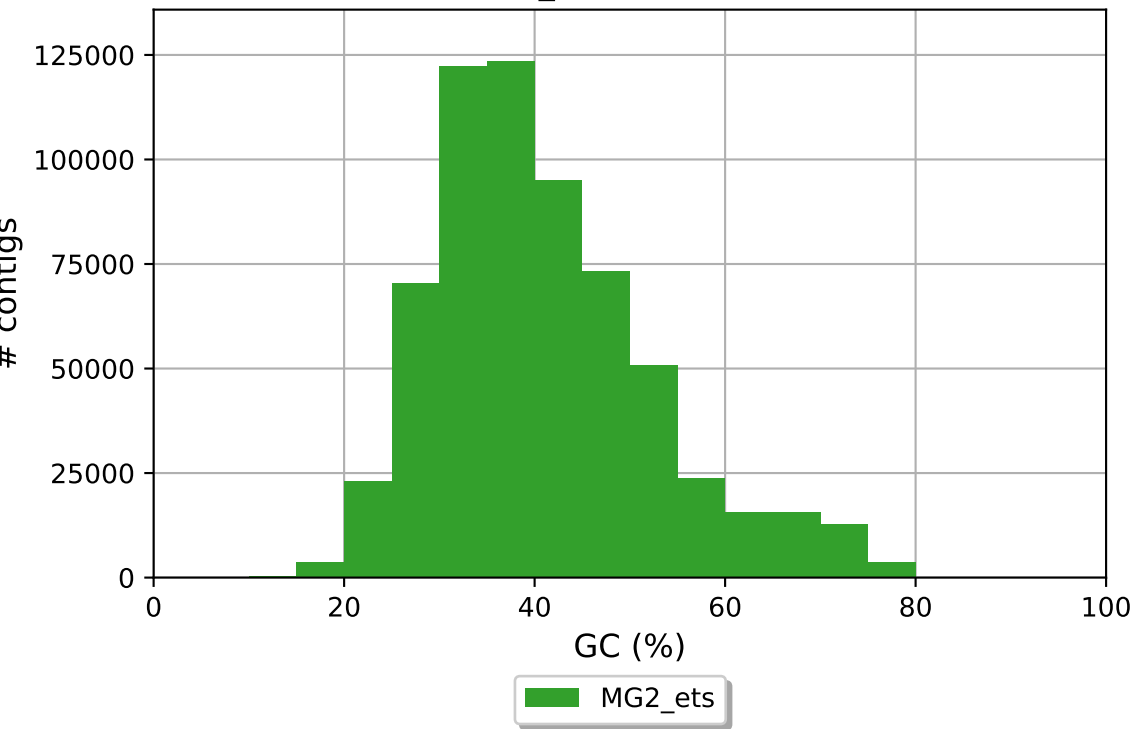
MG1\_sjw GC content



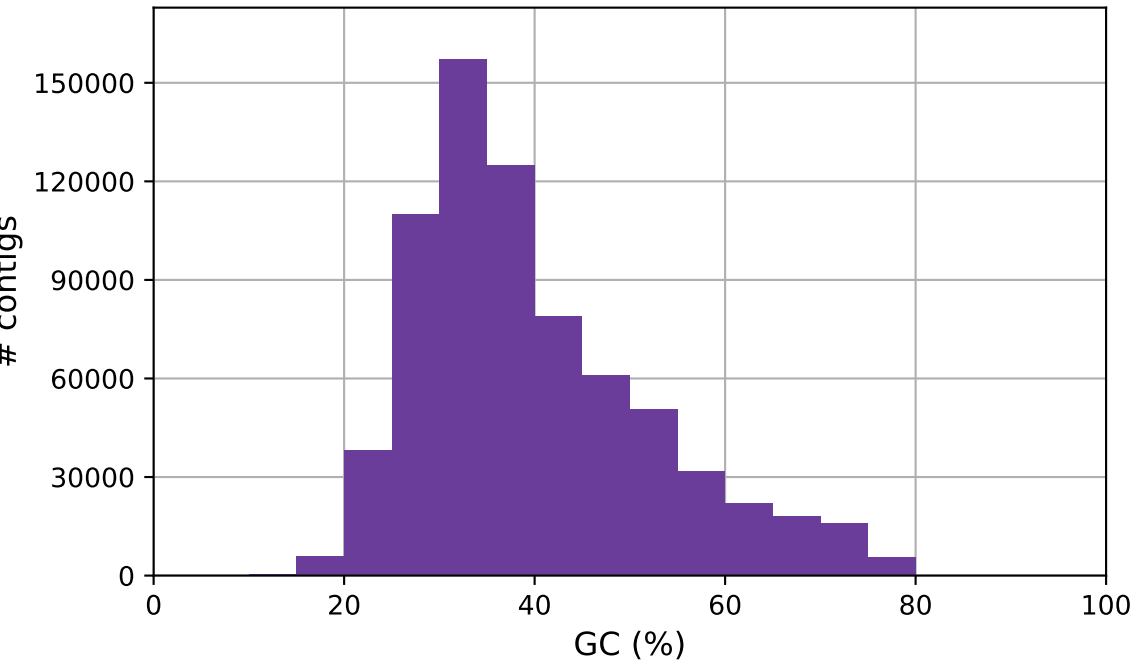
MG1\_sjw



MG2\_ets GC content

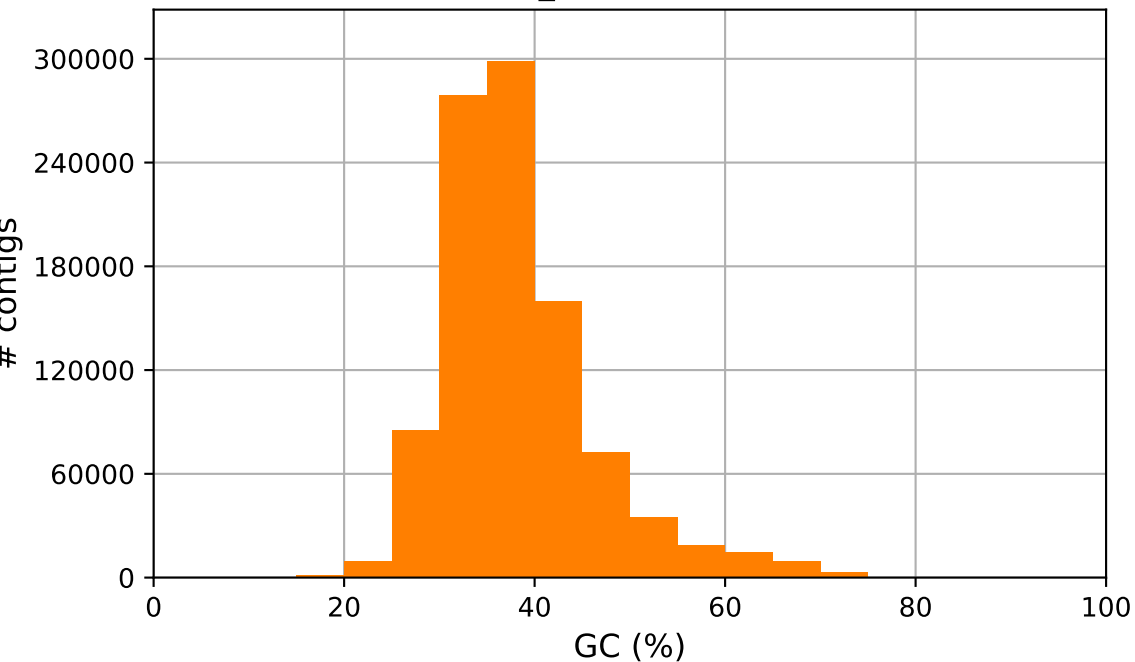


MG2\_sjw GC content



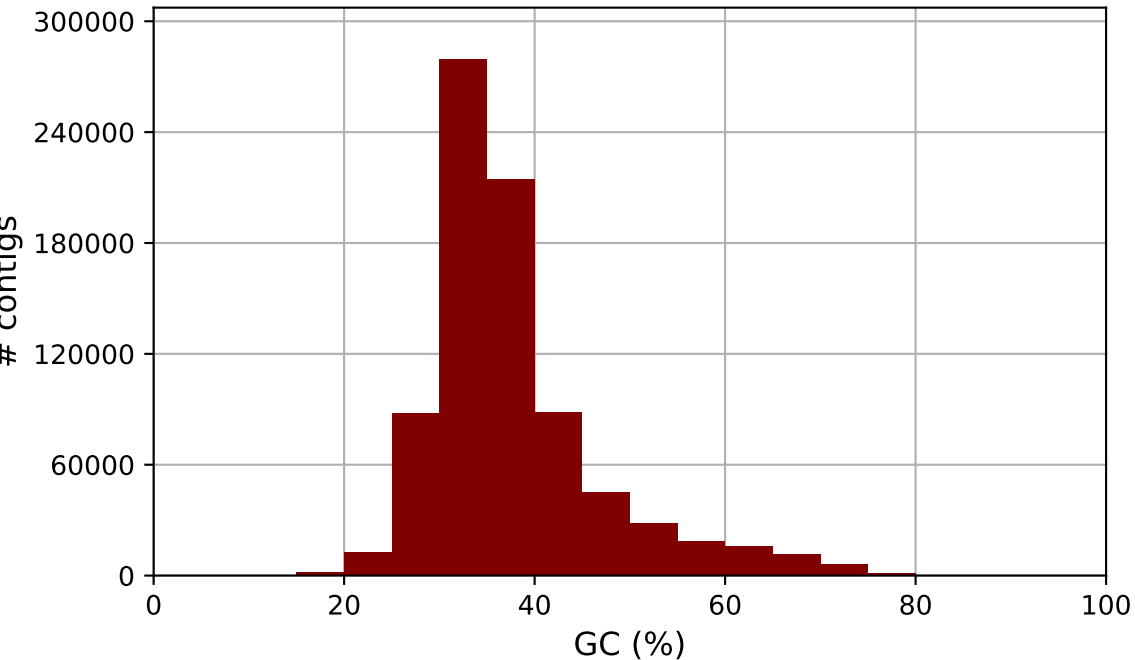
MG2\_sjw

MG3\_ets GC content



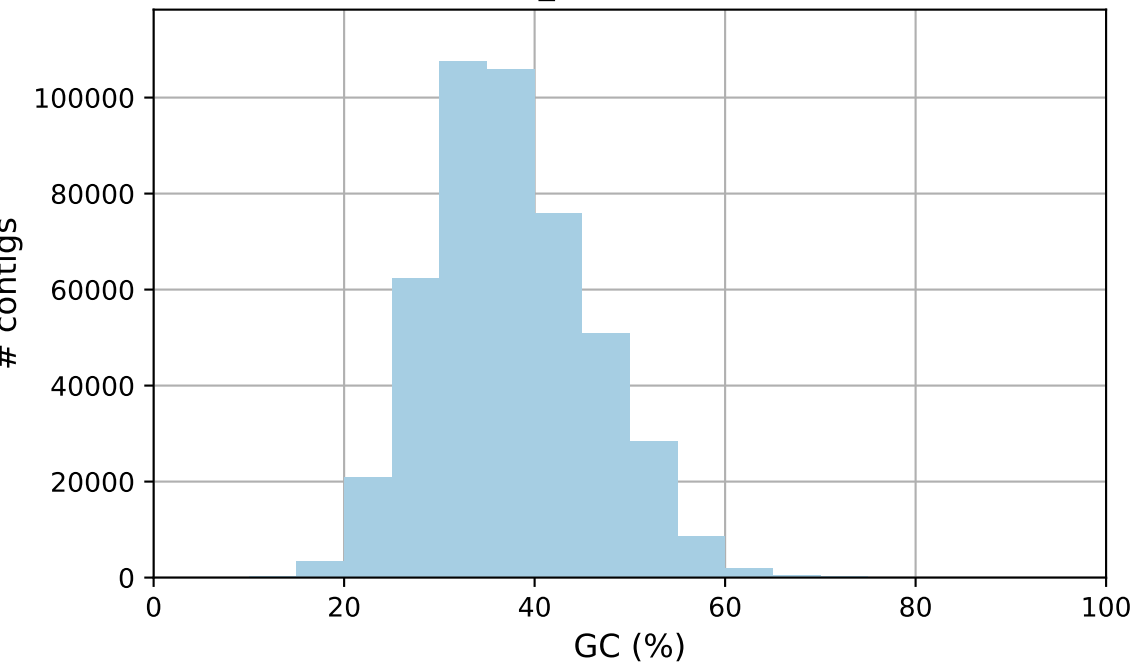
MG3\_ets

MG3\_sjw GC content



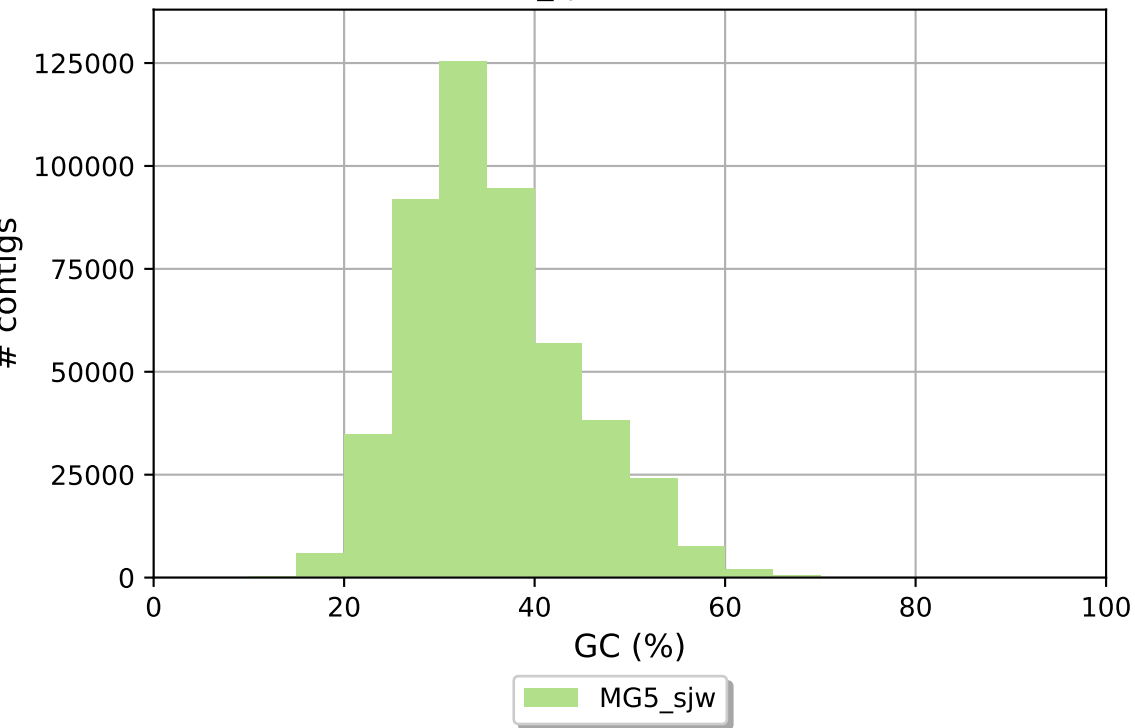
MG3\_sjw

MG5\_ets GC content

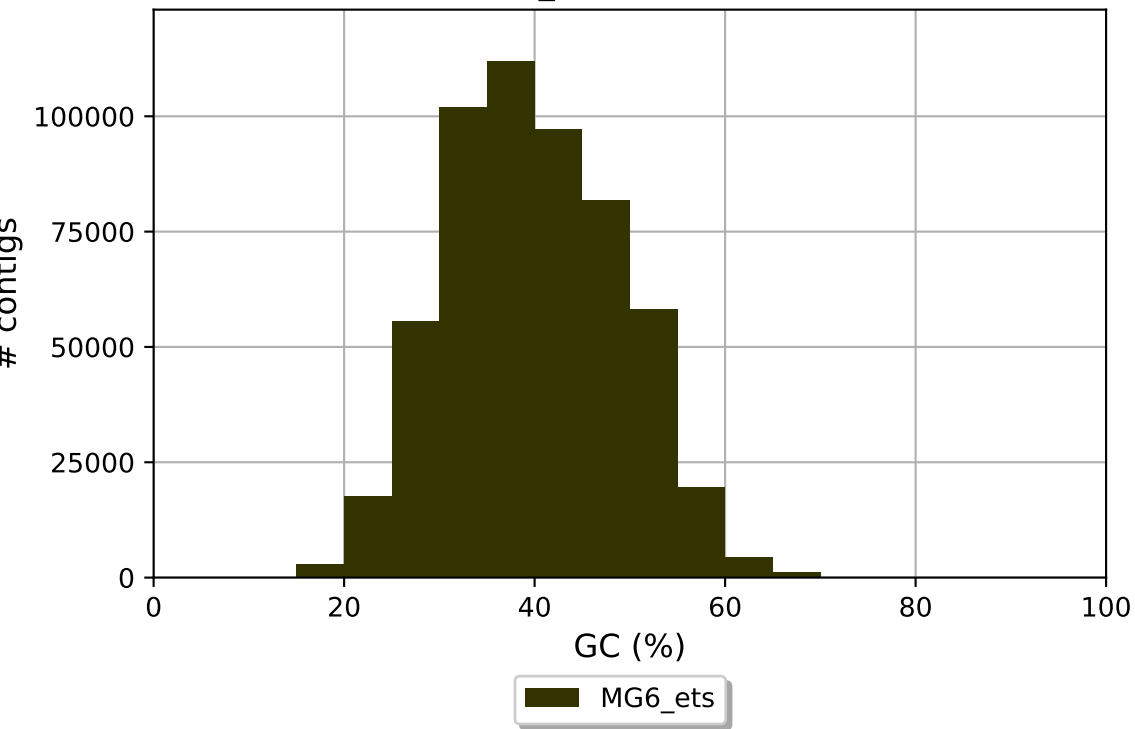


MG5\_ets

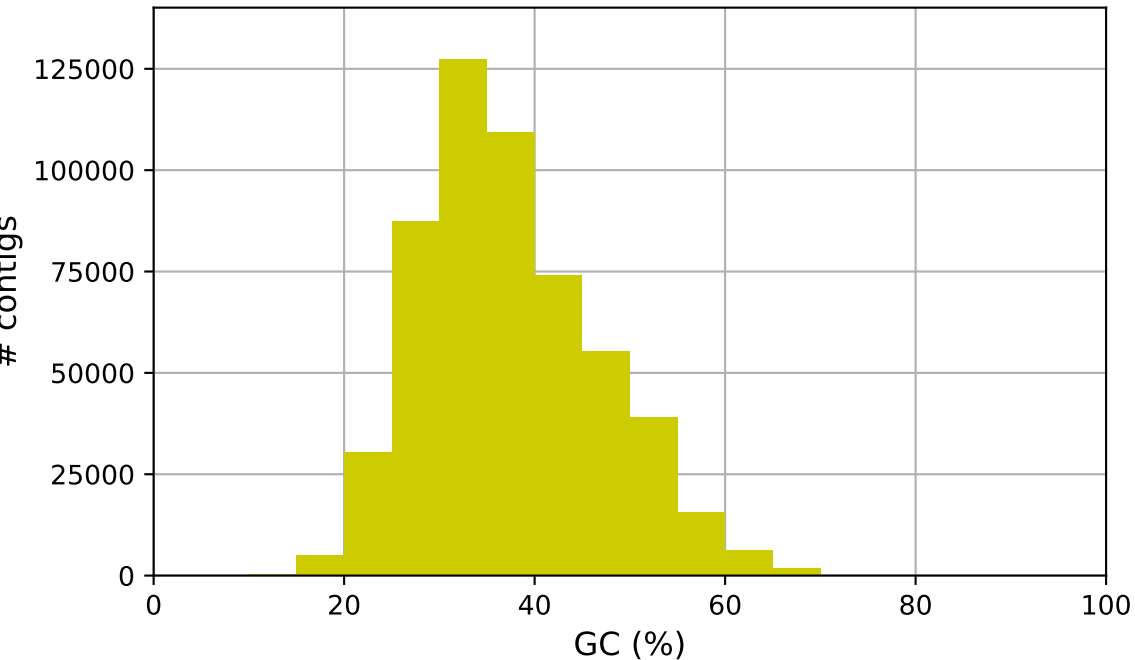
MG5\_sjw GC content



MG6\_ets GC content



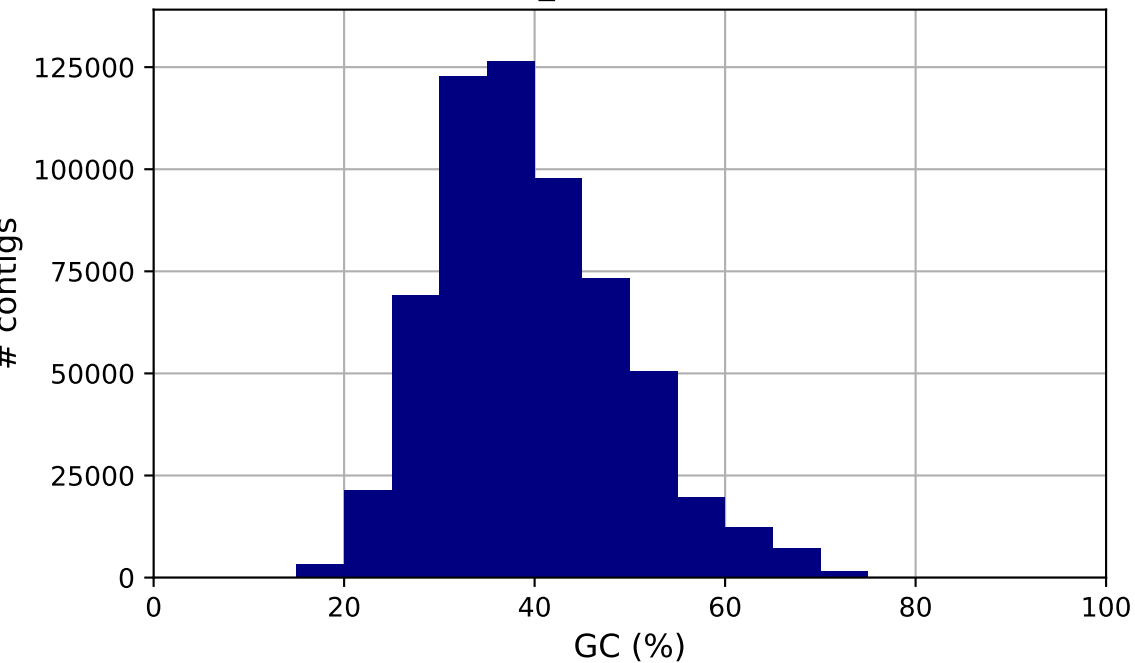
MG6\_sjw GC content



MG6\_sjw

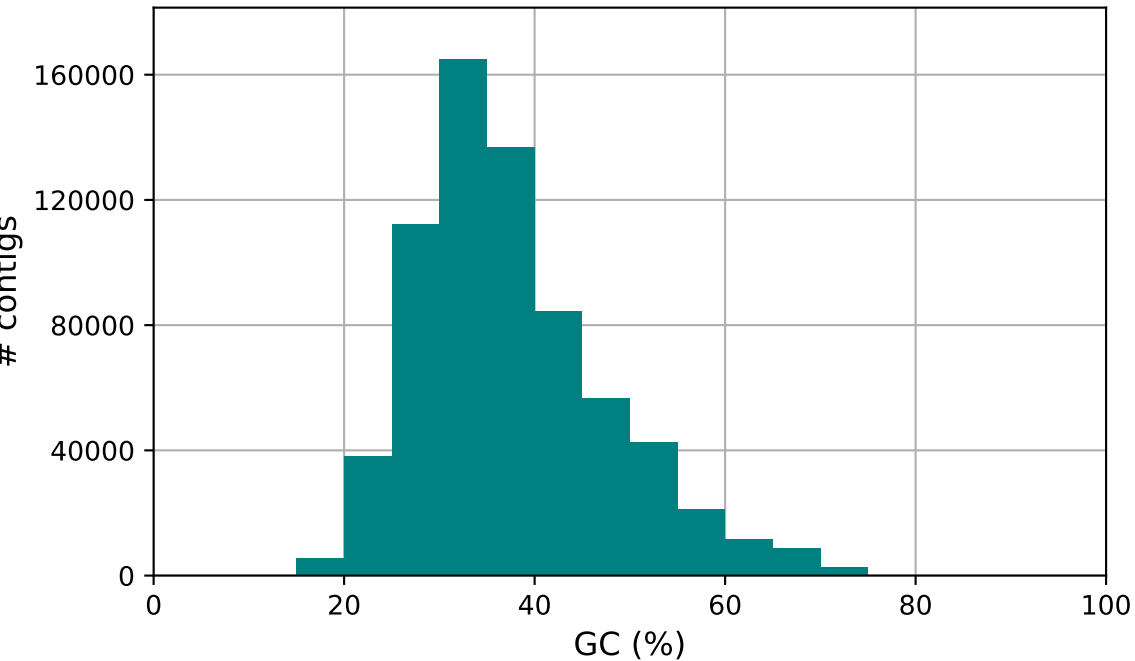


MG7\_ets GC content



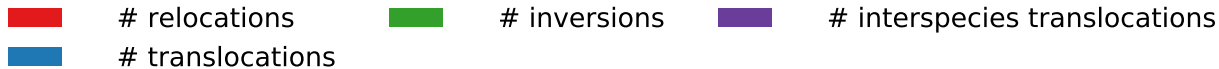
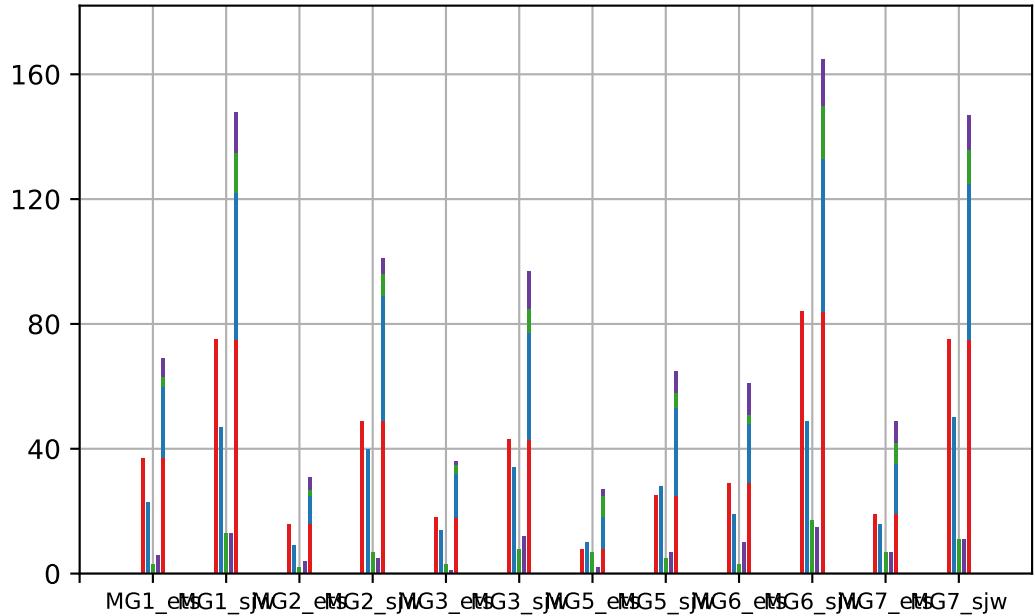
MG7\_ets

MG7\_sjw GC content

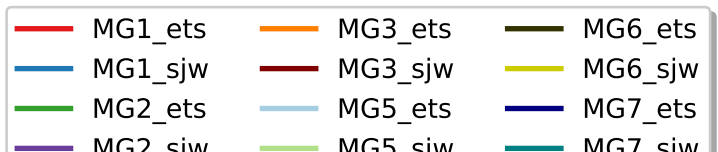
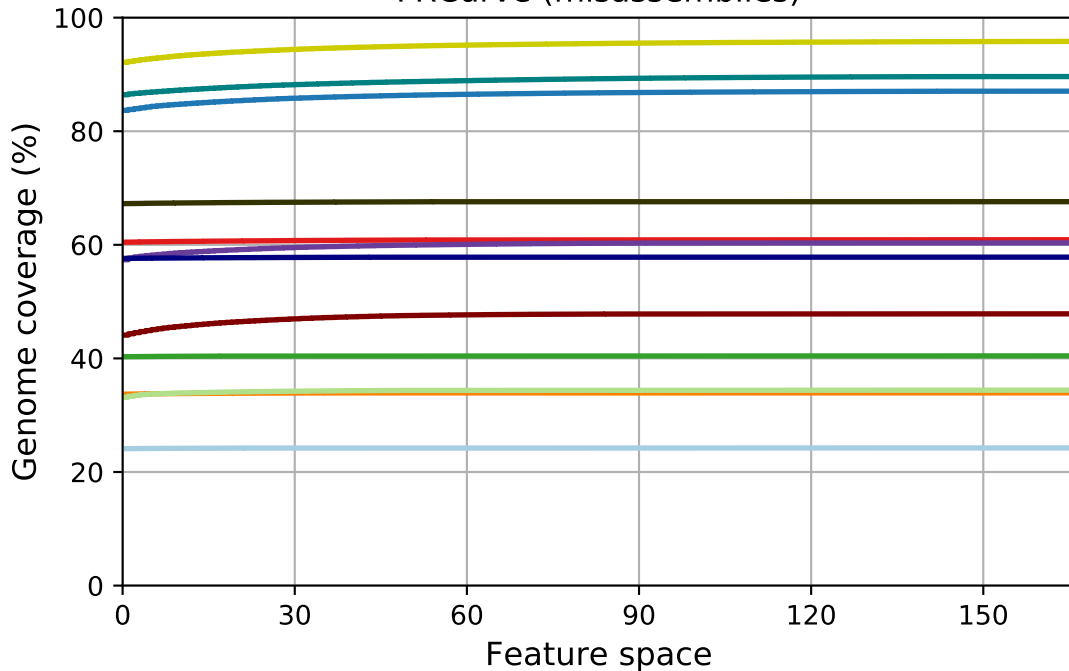


MG7\_sjw

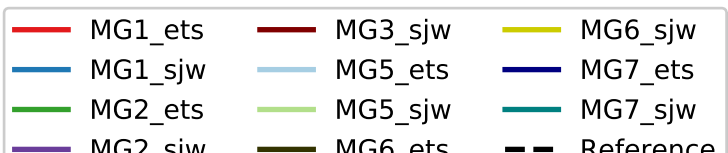
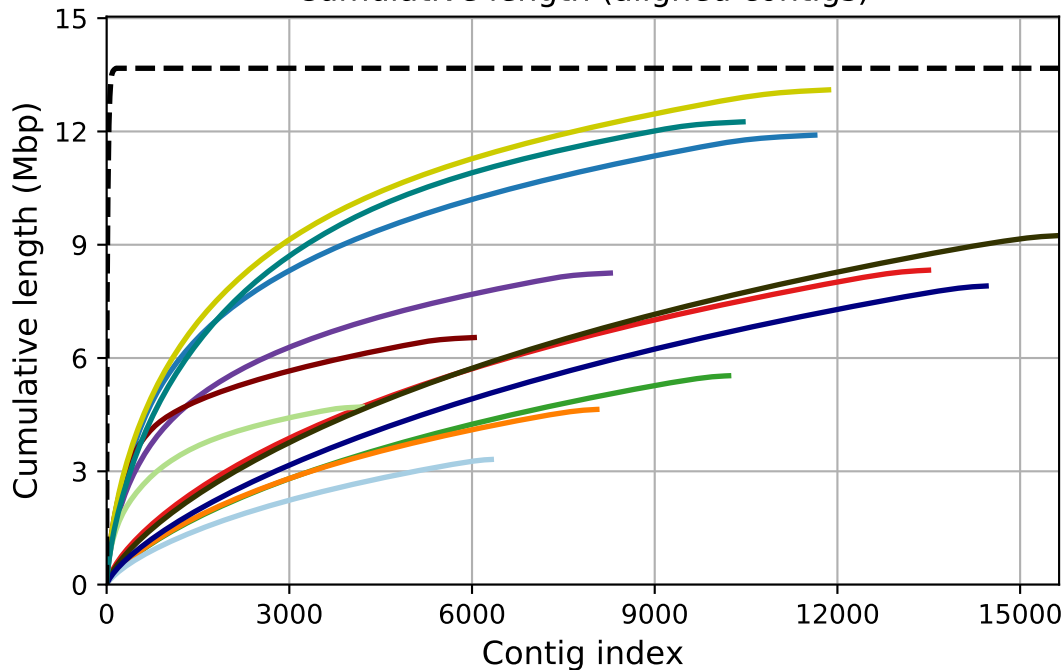
# Misassemblies



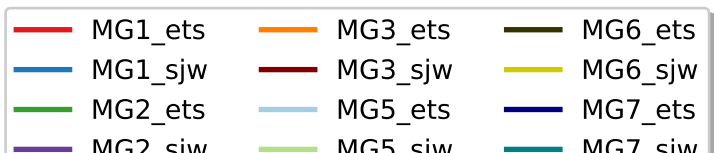
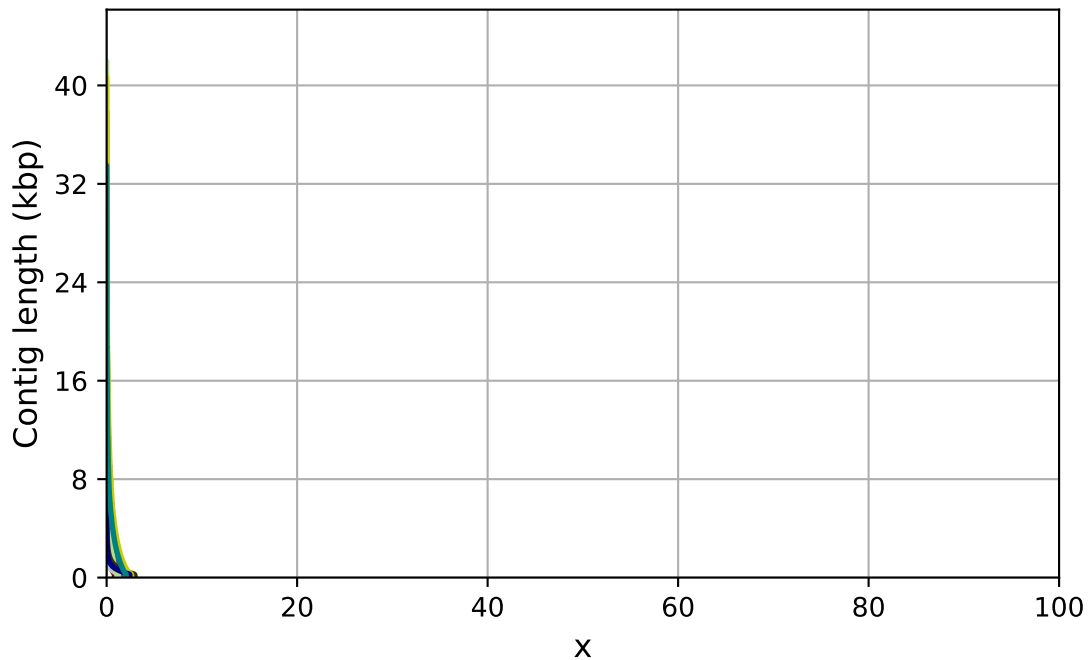
### FRCurve (misassemblies)



Cumulative length (aligned contigs)



# NAX



Genome fraction, %

