# Report

| | IDBA_UD | Ray | SOAPdenovo2 | SPAdes |
|---|---|---|---|---|
| # contigs (>= 1000 bp) | 4 | 1 | 1 | 1 |
| # contigs (>= 5000 bp) | 1 | 1 | 0 | 1 |
| # contigs (>= 10000 bp) | 1 | 0 | 0 | 0 |
| # contigs (>= 25000 bp) | 0 | 0 | 0 | 0 |
| # contigs (>= 50000 bp) | 0 | 0 | 0 | 0 |
| Total length (>= 1000 bp) | 15829 | 7690 | 2354 | 6159 |
| Total length (>= 5000 bp) | 10709 | 7690 | 0 | 6159 |
| Total length (>= 10000 bp) | 10709 | 0 | 0 | 0 |
| Total length (>= 25000 bp) | 0 | 0 | 0 | 0 |
| Total length (>= 50000 bp) | 0 | 0 | 0 | 0 |
| # contigs | 4 | 1 | 1 | 1 |
| Largest contig | 10709 | 7690 | 2354 | 6159 |
| Total length | 15829 | 7690 | 2354 | 6159 |
| Reference length | 2671313 | 2671313 | 2671313 | 2671313 |
| GC (%) | 40.07 | 38.08 | 36.49 | 35.67 |
| Reference GC (%) | 36.82 | 36.82 | 36.82 | 36.82 |
| N50 | 10709 | 7690 | 2354 | 6159 |
| N75 | 2719 | 7690 | 2354 | 6159 |
| L50 | 1 | 1 | 1 | 1 |
| L75 | 2 | 1 | 1 | 1 |
| # misassemblies | 0 | 0 | 0 | 0 |
| # misassembled contigs | 0 | 0 | 0 | 0 |
| Misassembled contigs length | 0 | 0 | 0 | 0 |
| # local misassemblies | 0 | 0 | 0 | 0 |
| # structural variations | 0 | 0 | 0 | 0 |
| # unaligned contigs | 0 + 4 part | 0 + 1 part | 0 + 1 part | 0 + 1 part |
| Unaligned length | 14458 | 6728 | 1392 | 5197 |
| Genome fraction (%) | 0.049 | 0.036 | 0.036 | 0.036 |
| Duplication ratio | 1.053 | 1.001 | 1.001 | 1.001 |
| # N's per 100 kbp | 1345.63 | 1755.53 | 0.00 | 0.00 |
| # mismatches per 100 kbp | 2457.76 | 2601.46 | 2601.46 | 2601.46 |
| # indels per 100 kbp | 153.61 | 104.06 | 104.06 | 104.06 |
| Largest alignment | 962 | 962 | 962 | 962 |
| NGA50 | - | - | - | - |

All statistics are based on contigs of size >= 500 bp, unless otherwise noted (e.g., "# contigs (>= 0 bp)" and "Total length (>= 0 bp)" include all contigs).

# Misassemblies report

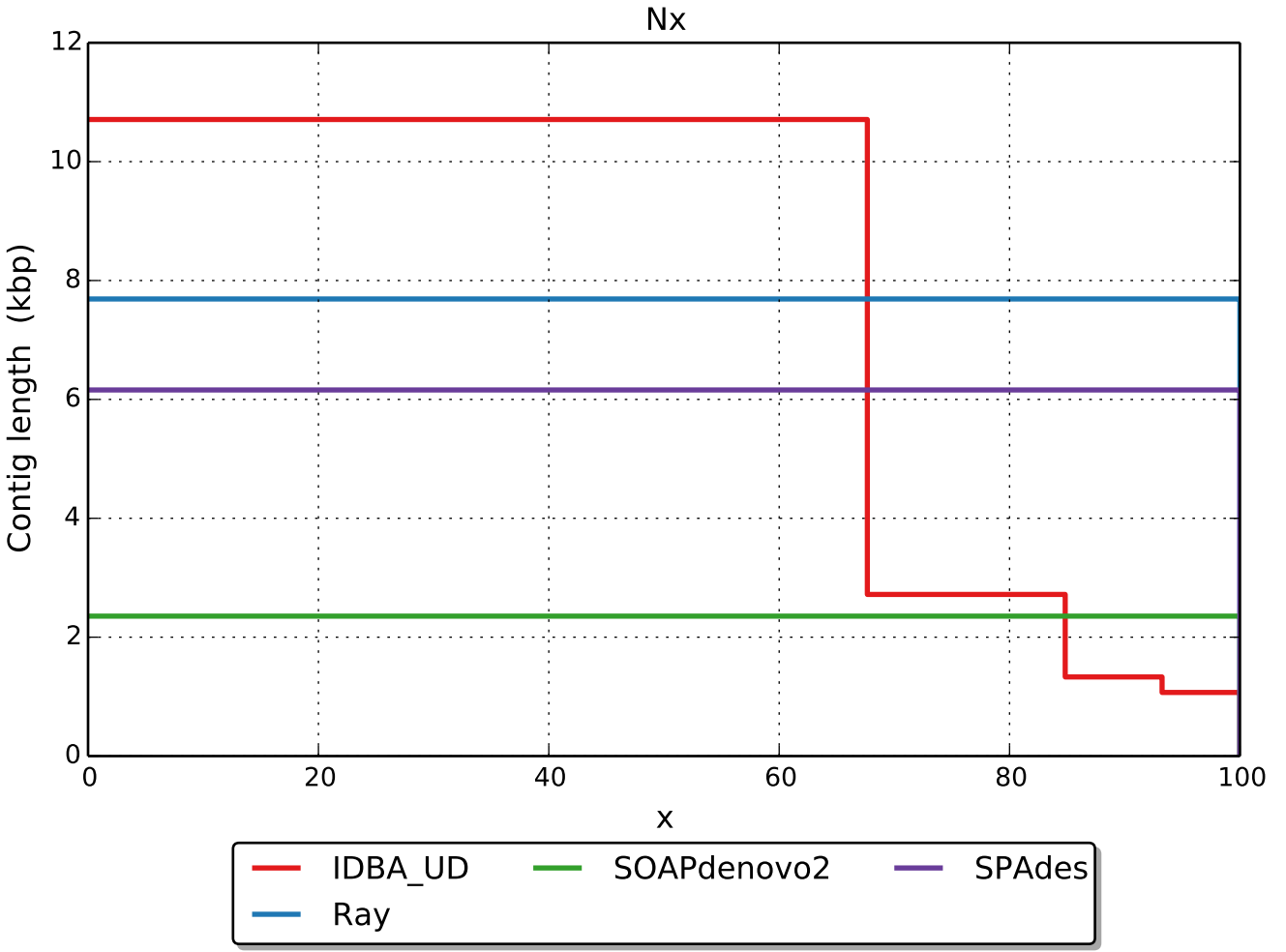
| | IDBA_UD | Ray | SOAPdenovo2 | SPAdes |
|---|---|---|---|---|
| # misassemblies | 0 | 0 | 0 | 0 |
| # relocations | 0 | 0 | 0 | 0 |
| # translocations | 0 | 0 | 0 | 0 |
| # inversions | 0 | 0 | 0 | 0 |
| # possibly misassembled contigs | 1 | 1 | 1 | 1 |
| # misassembled contigs | 0 | 0 | 0 | 0 |
| Misassembled contigs length | 0 | 0 | 0 | 0 |
| # local misassemblies | 0 | 0 | 0 | 0 |
| # structural variations | 0 | 0 | 0 | 0 |
| # mismatches | 32 | 25 | 25 | 25 |
| # indels | 2 | 1 | 1 | 1 |
| # short indels | 2 | 1 | 1 | 1 |
| # long indels | 0 | 0 | 0 | 0 |
| Indels length | 2 | 1 | 1 | 1 |

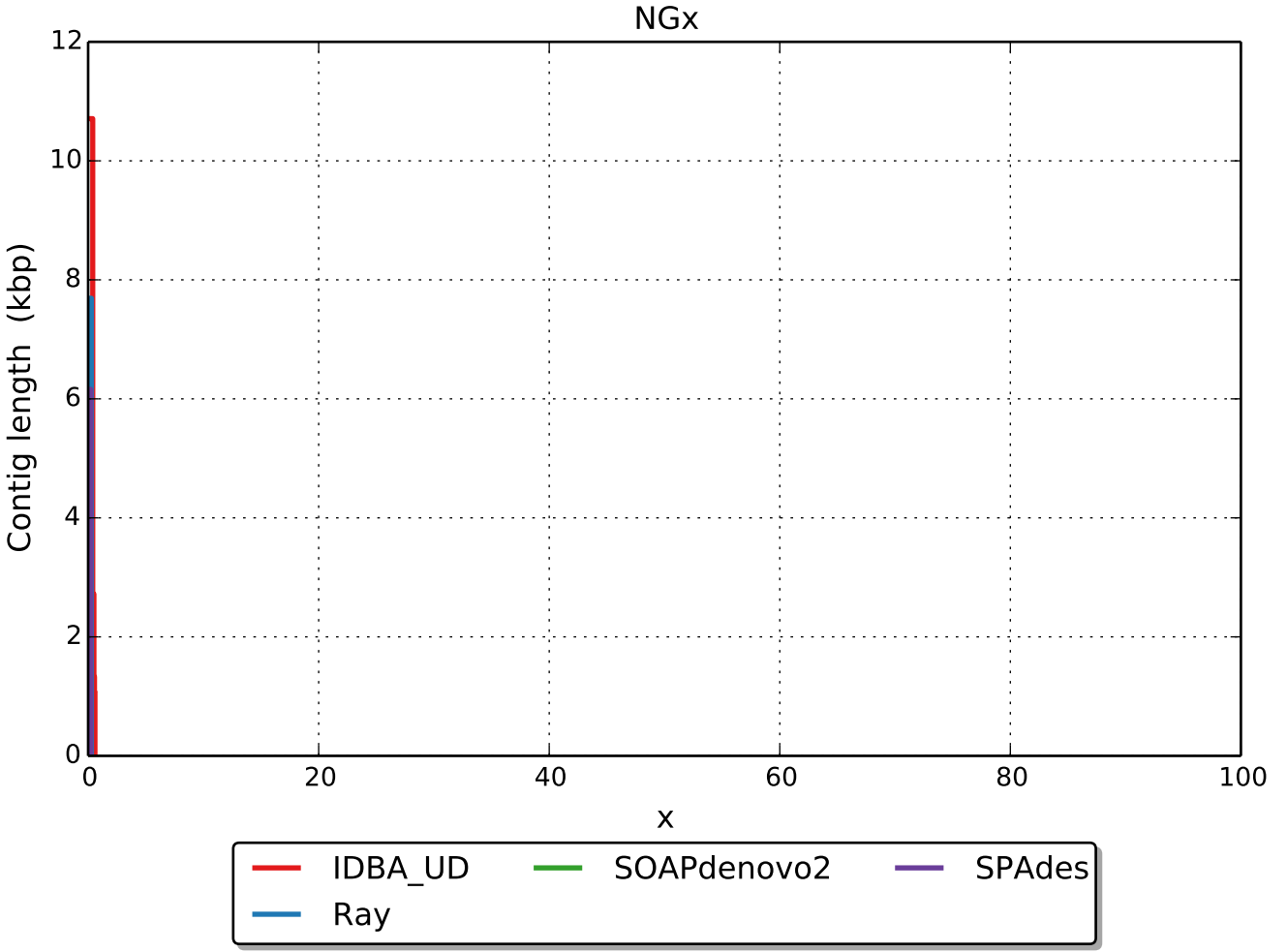
All statistics are based on contigs of size >= 500 bp, unless otherwise noted (e.g., "# contigs (>= 0 bp)" and "Total length (>= 0 bp)" include all contigs).

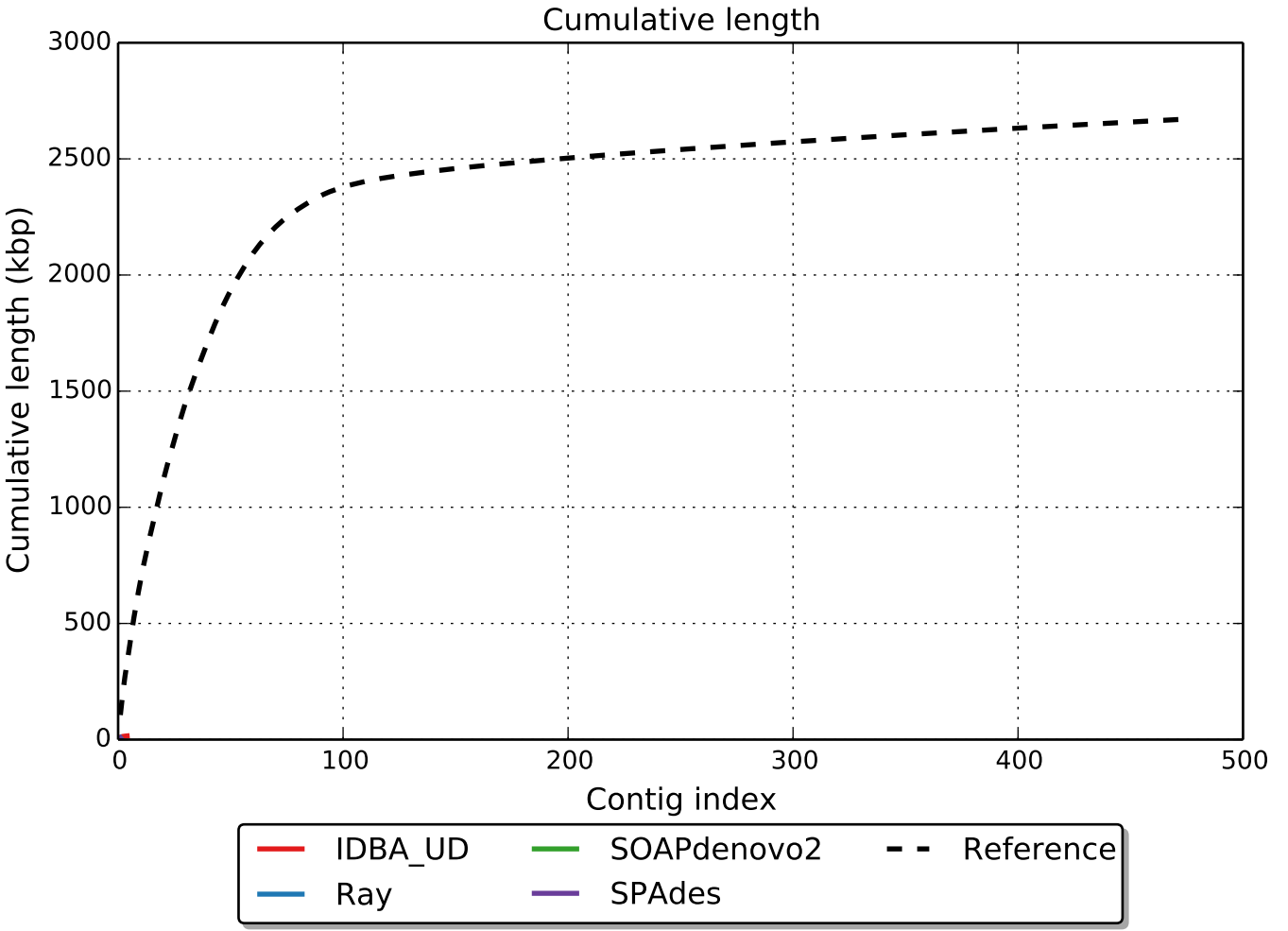
# Unaligned report

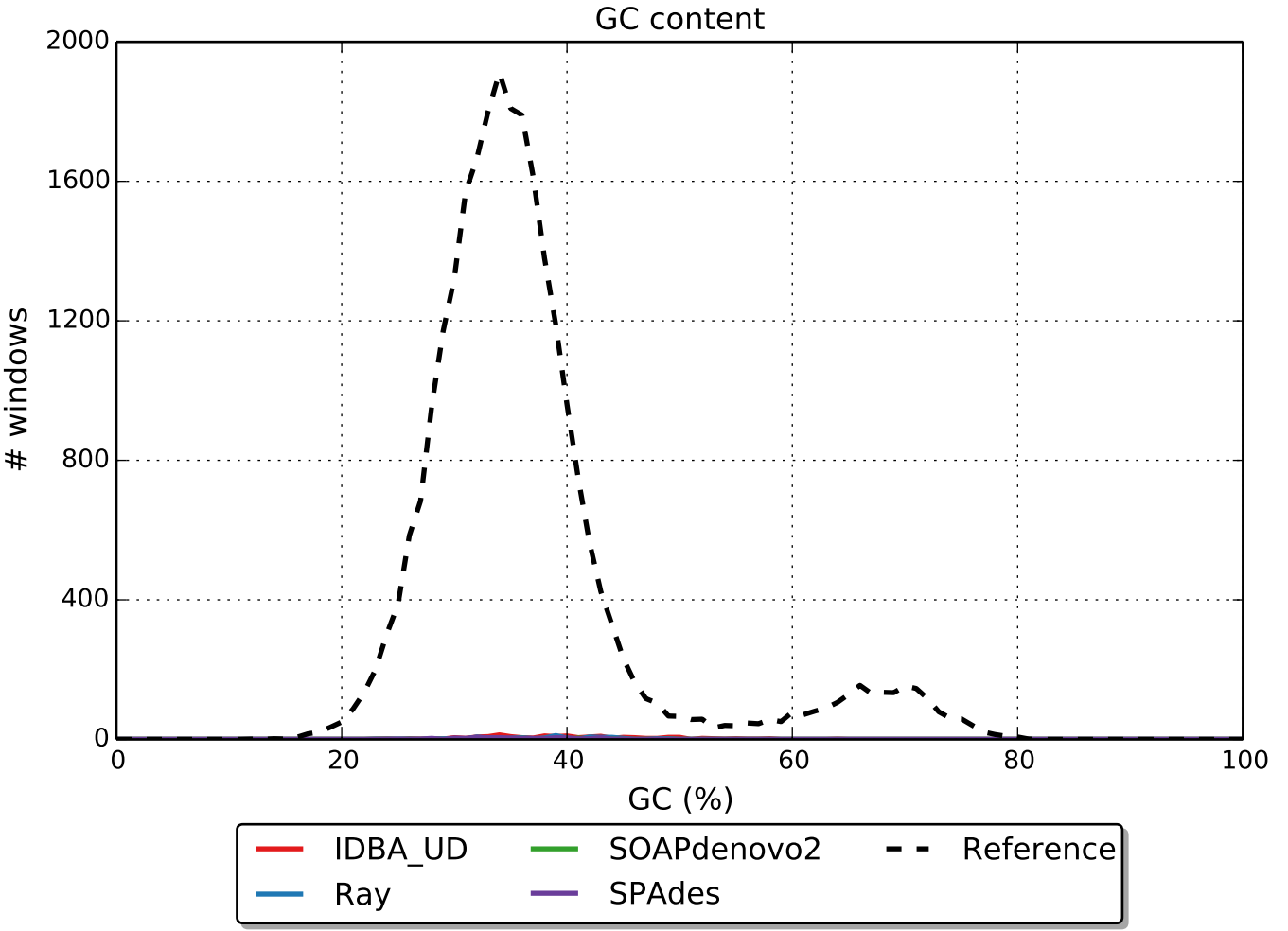
| | IDBA_UD | Ray | SOAPdenovo2 | SPAdes |
|---|---|---|---|---|
| # fully unaligned contigs | 0 | 0 | 0 | 0 |
| Fully unaligned length | 0 | 0 | 0 | 0 |
| # partially unaligned contigs | 4 | 1 | 1 | 1 |
| # with misassembly | 0 | 0 | 0 | 0 |
| # both parts are significant | 1 | 1 | 1 | 1 |
| Partially unaligned length | 14458 | 6728 | 1392 | 5197 |
| # N's | 213 | 135 | 0 | 0 |

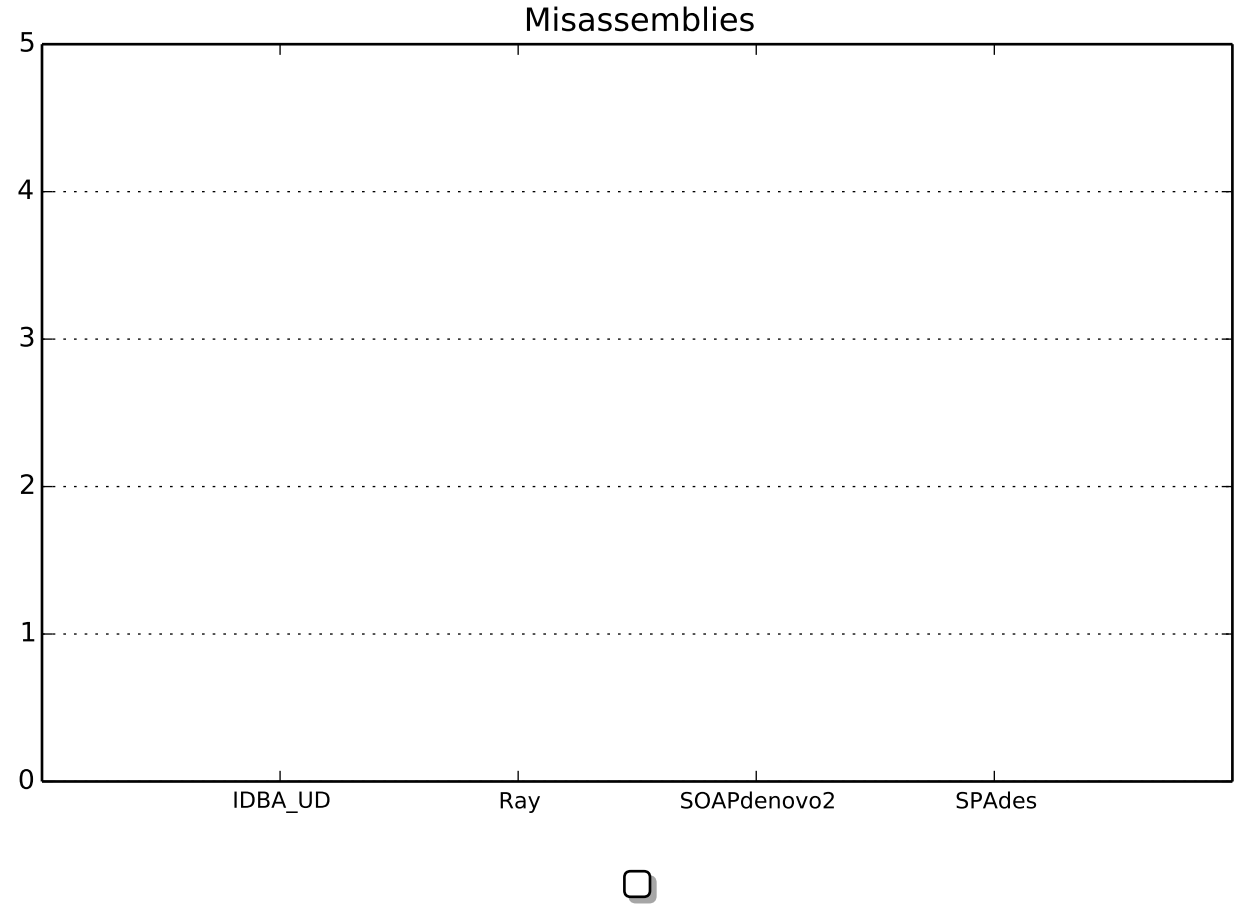
All statistics are based on contigs of size >= 500 bp, unless otherwise noted (e.g., "# contigs (>= 0 bp)" and "Total length (>= 0 bp)" include all contigs).

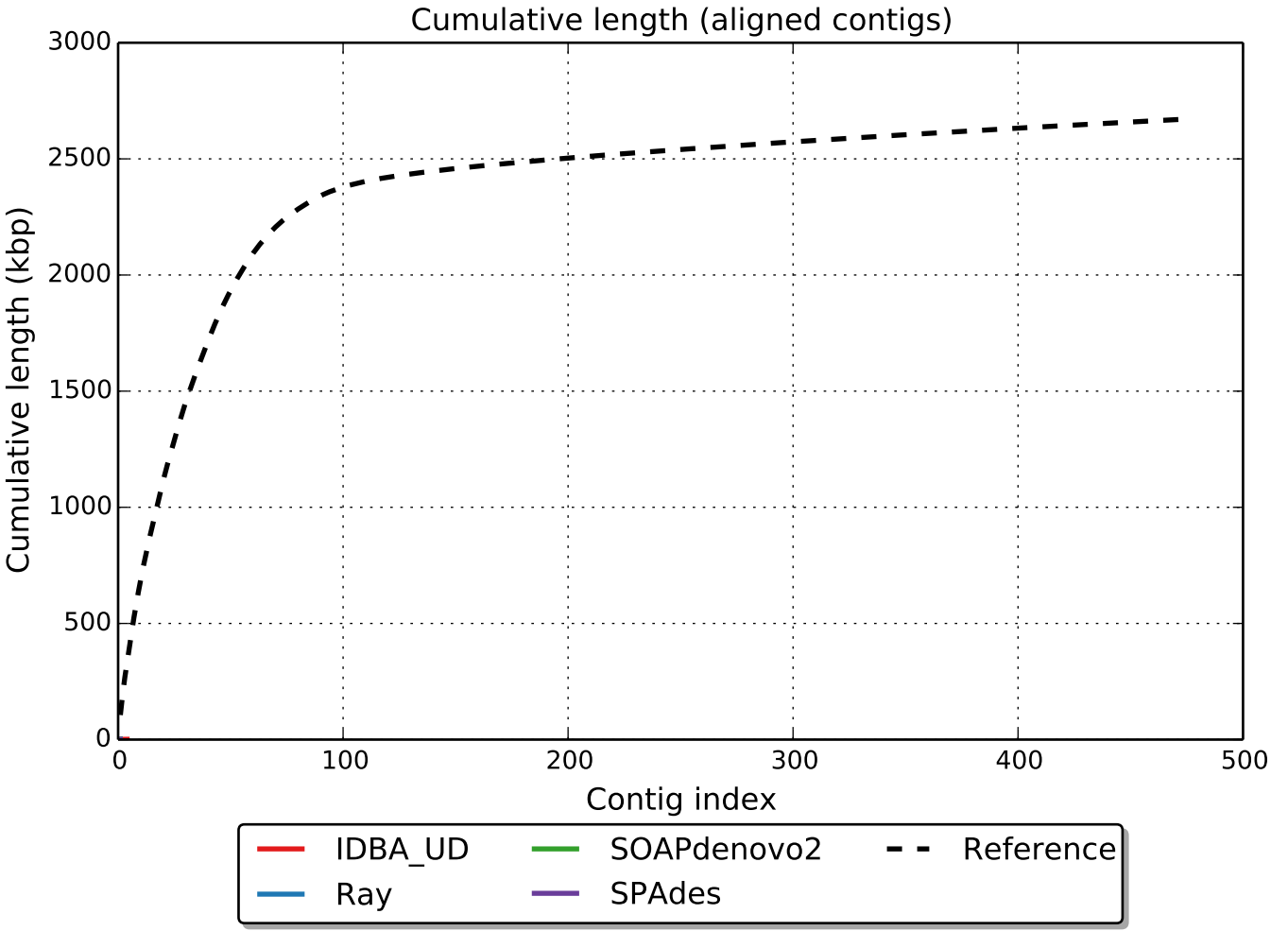

Nx
Contig length (kbp)
x
0
2
4
6
8
10
12
0
20
40
60
80
100
IDBA_UD
Ray
SOAPdenovo2
SPAdes

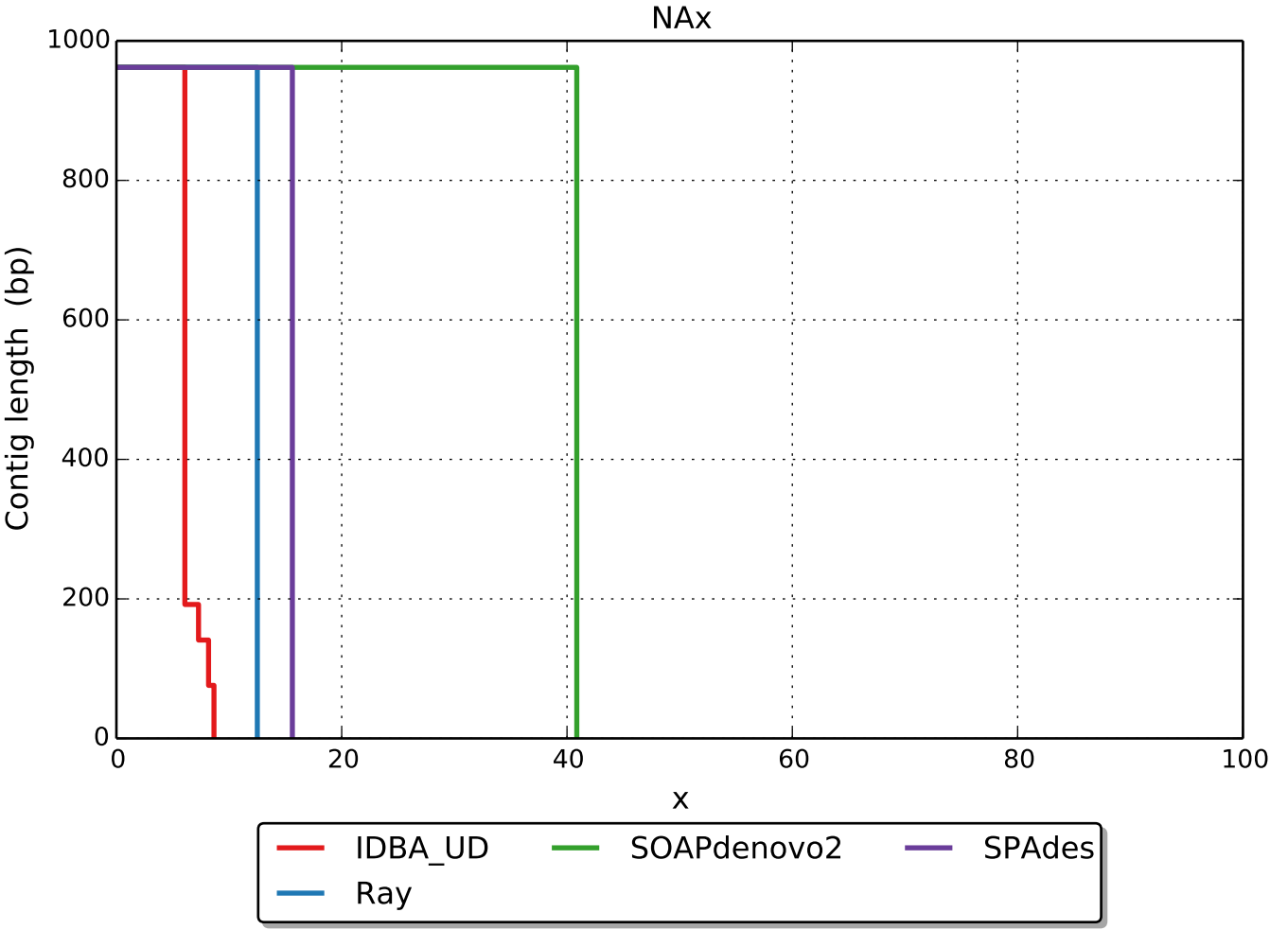

NGx
Contig length (kbp)
x
0
2
4
6
8
10
12
0
20
40
60
80
100
IDBA_UD
Ray
SOAPdenovo2
SPAdes

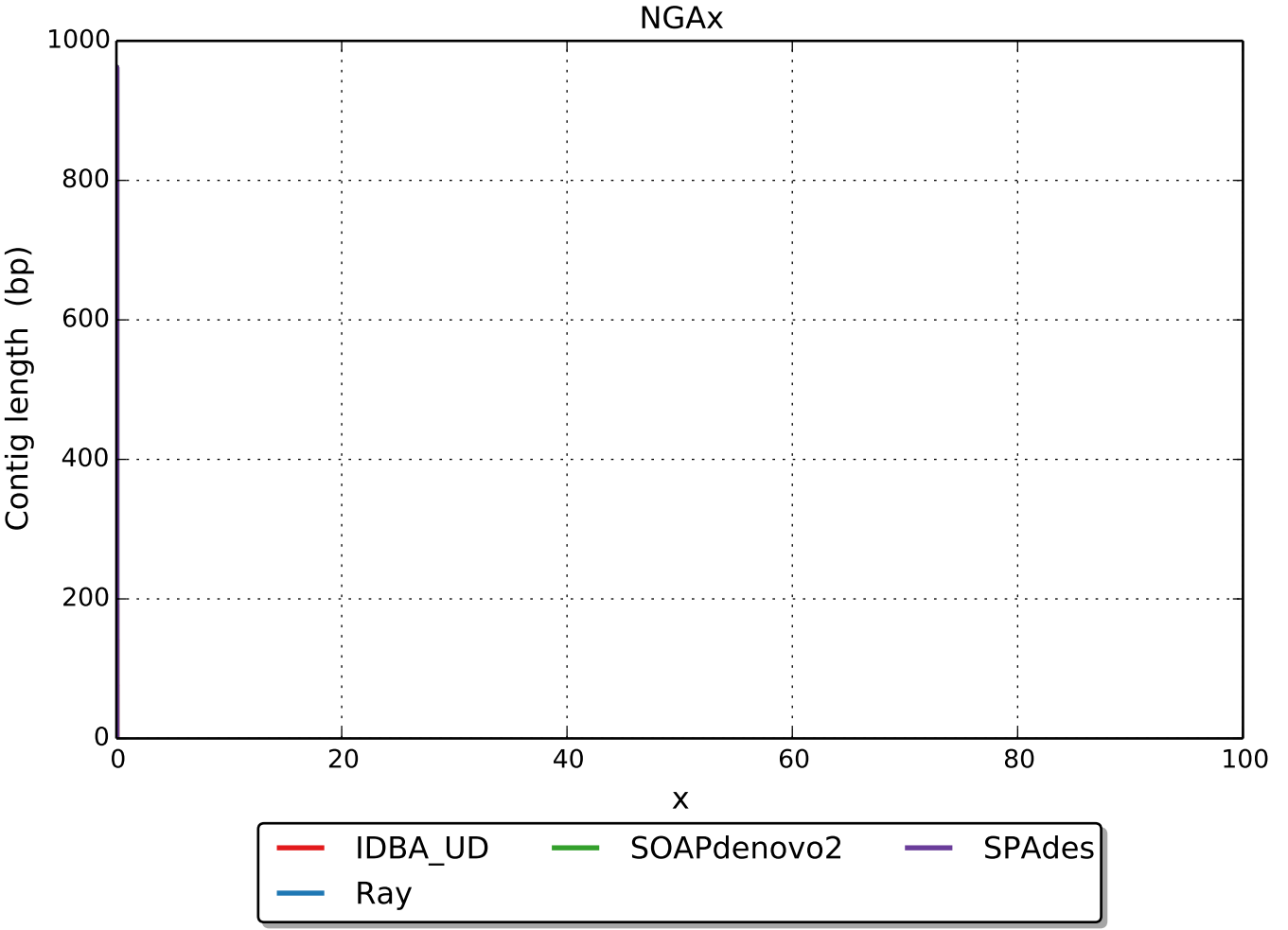

Cumulative length
Cumulative length (kbp)
3000
2500
2000
1500
1000
500
0
0
100
200
300
400
500
Contig index
IDBA_UD
Ray
SOAPdenovo2
SPAdes
Reference


GC content
2000
1600
1200
800
400
0
# windows
0
20
40
60
80
100
GC (%)
IDBA_UD
Ray
SOAPdenovo2
SPAdes
Reference


Misassemblies
5
4
3
2
1
0
IDBA_UD
Ray
SOAPdenovo2
SPAdes


Cumulative length (aligned contigs)
Cumulative length (kbp)
3000
2500
2000
1500
1000
500
0
0
100
200
300
400
500
Contig index
IDBA_UD
Ray
SOAPdenovo2
SPAdes
Reference


NAx
1000
800
600
400
200
0
Contig length (bp)
0
20
40
60
80
100
x
IDBA_UD
Ray
SOAPdenovo2
SPAdes


NGAx
1000
800
600
400
200
0
Contig length (bp)
0
20
40
60
80
100
x
IDBA_UD
SOAPdenovo2
SPAdes
Ray

Genome fraction, %
100
50
0
IDBA_UD
SOAPdenovo2
SPAdes
Ray