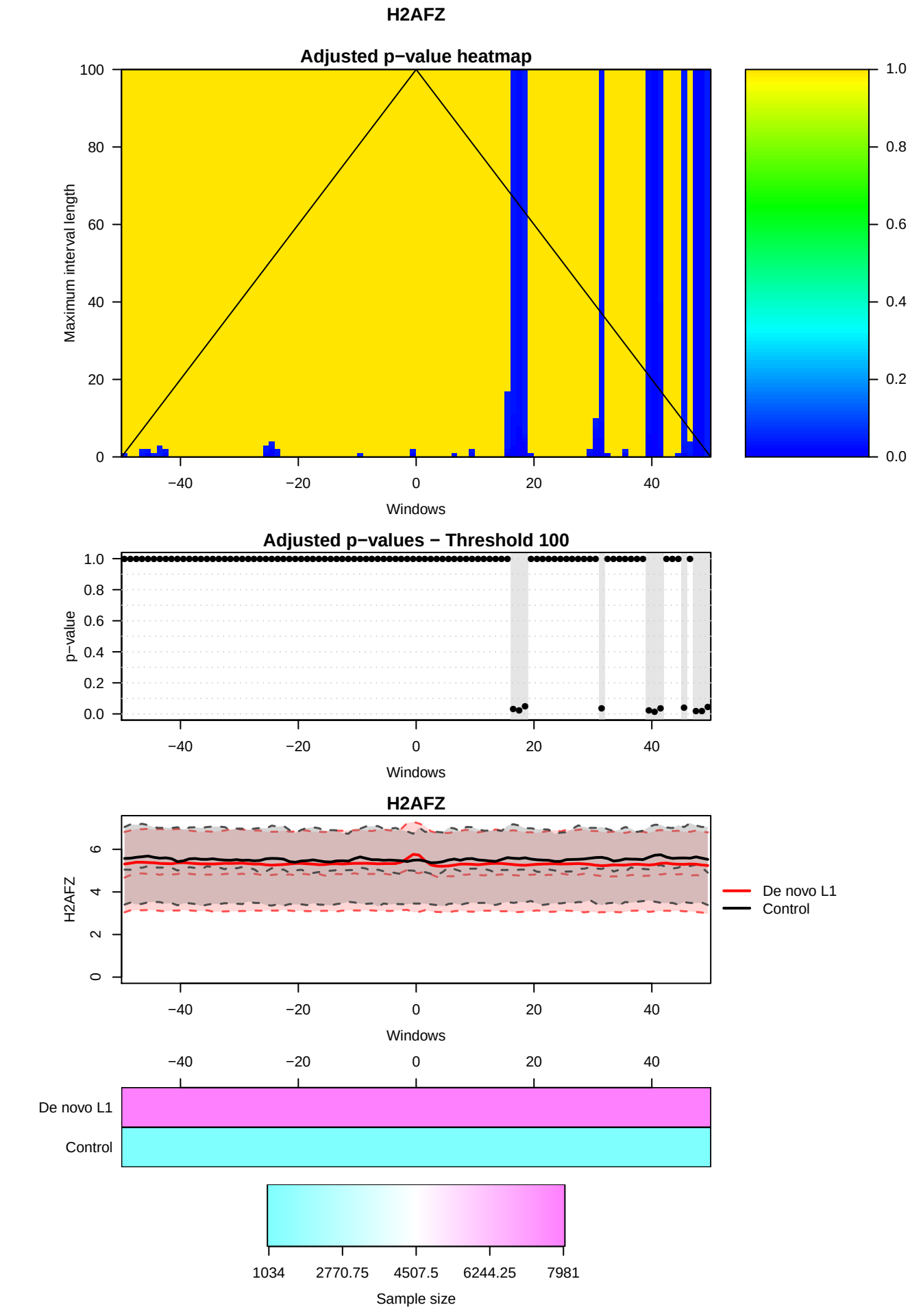
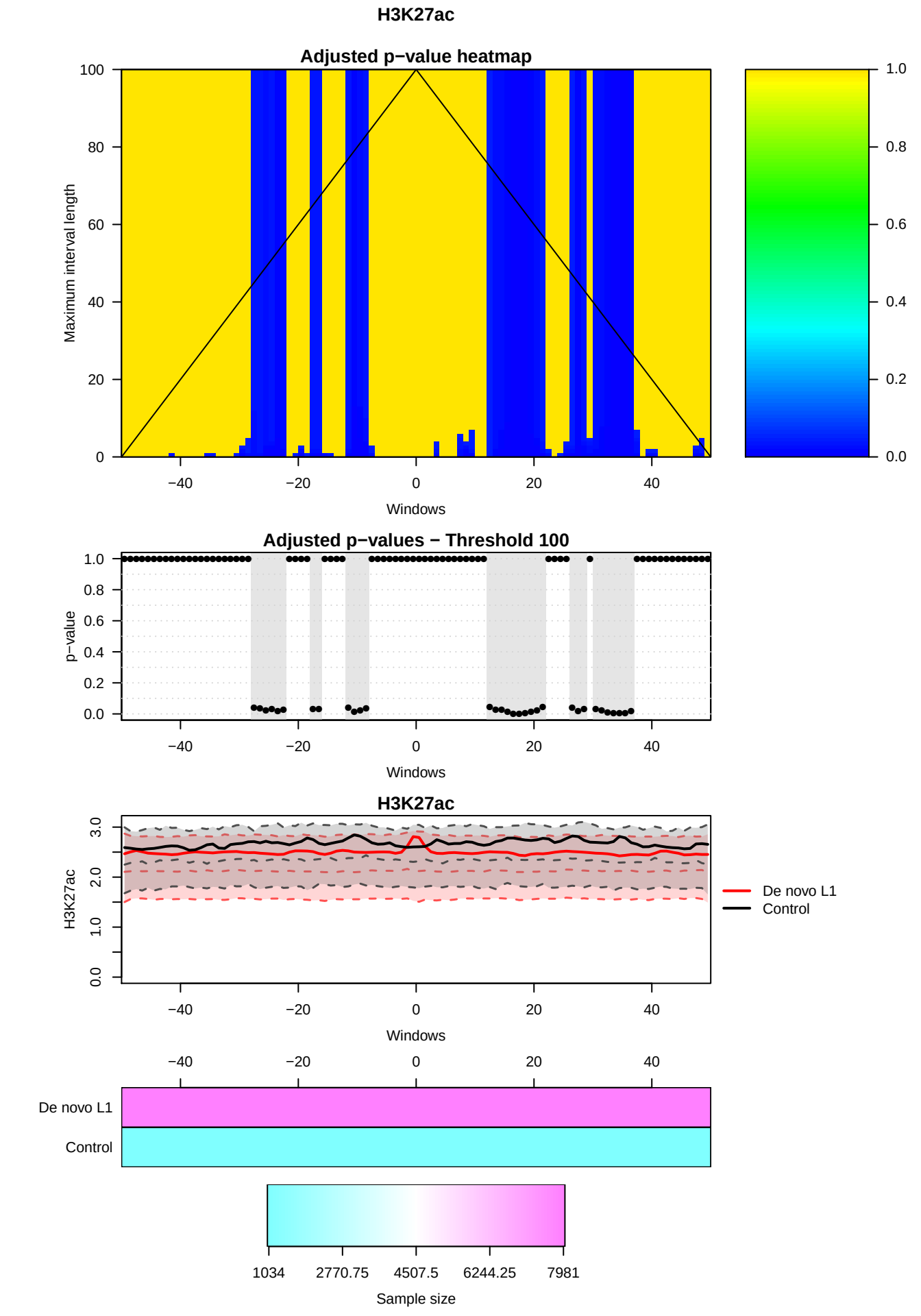
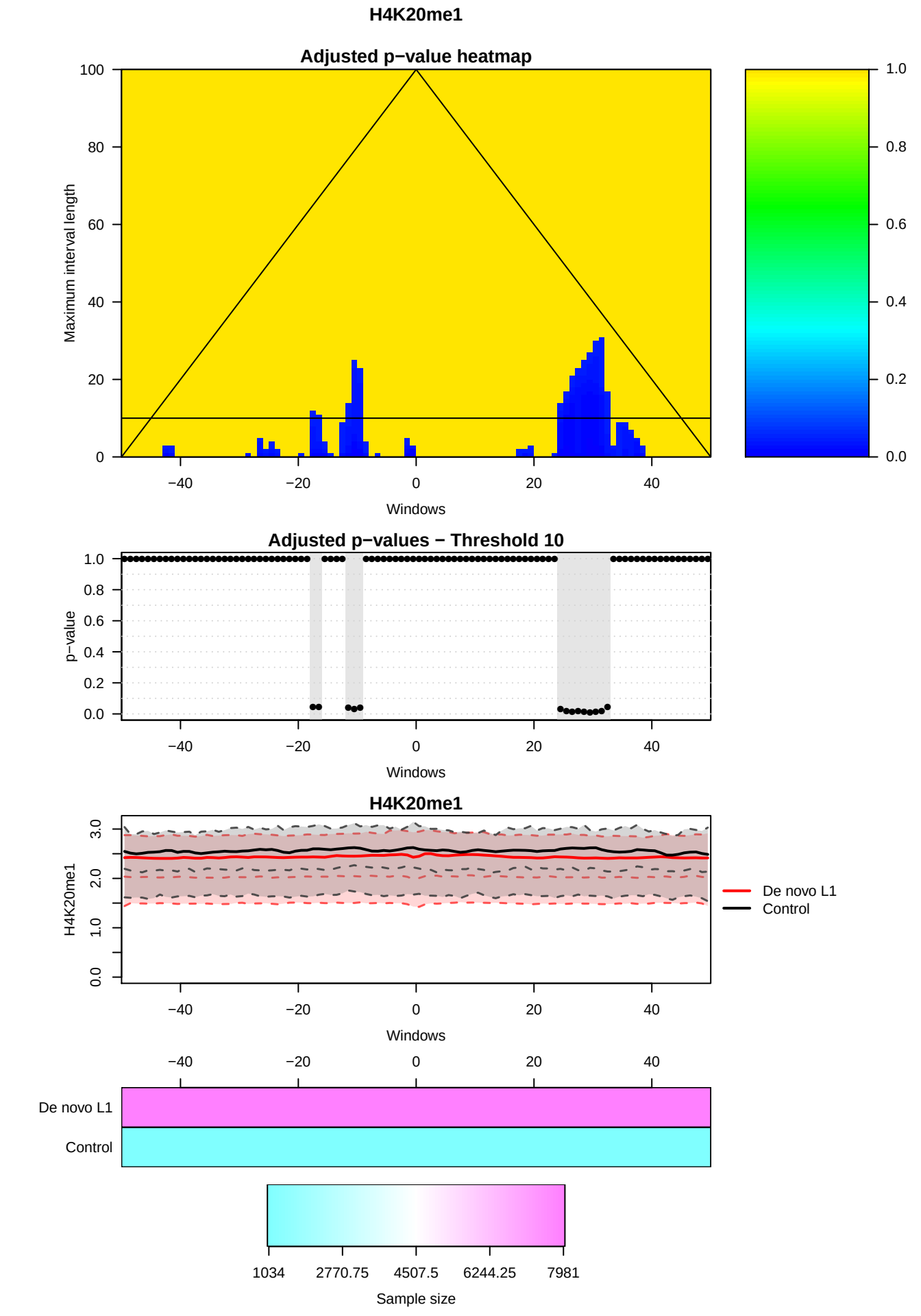
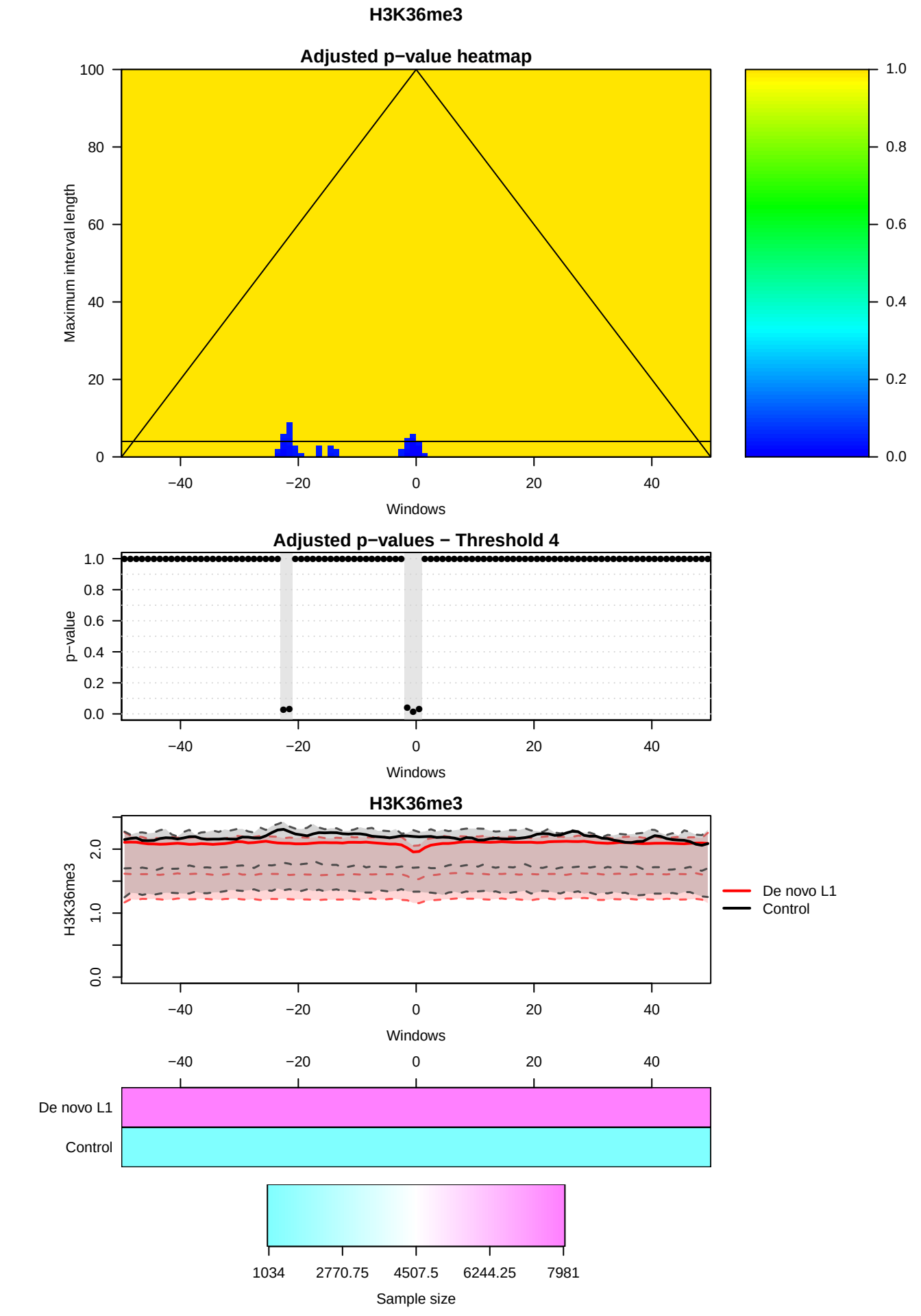
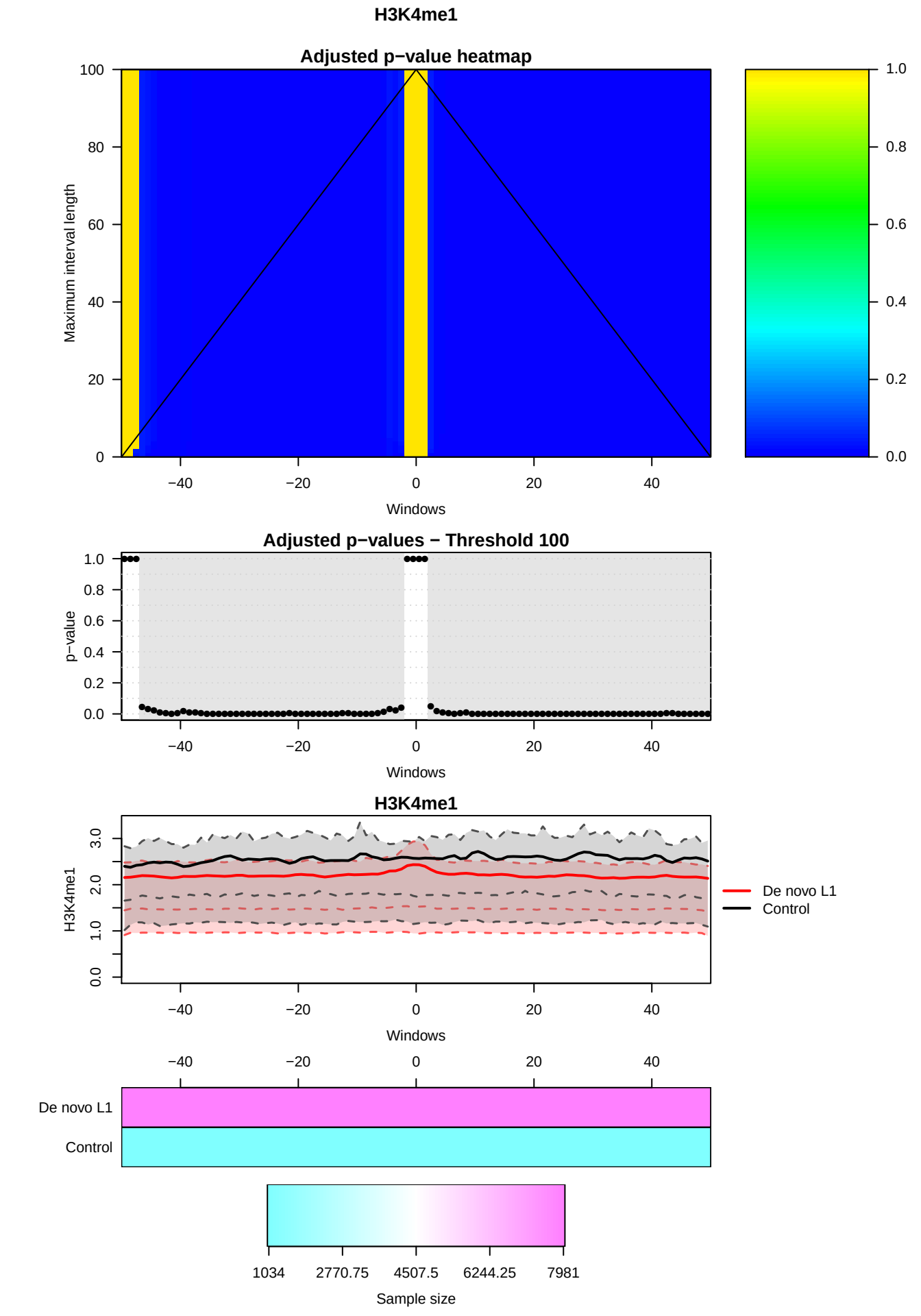
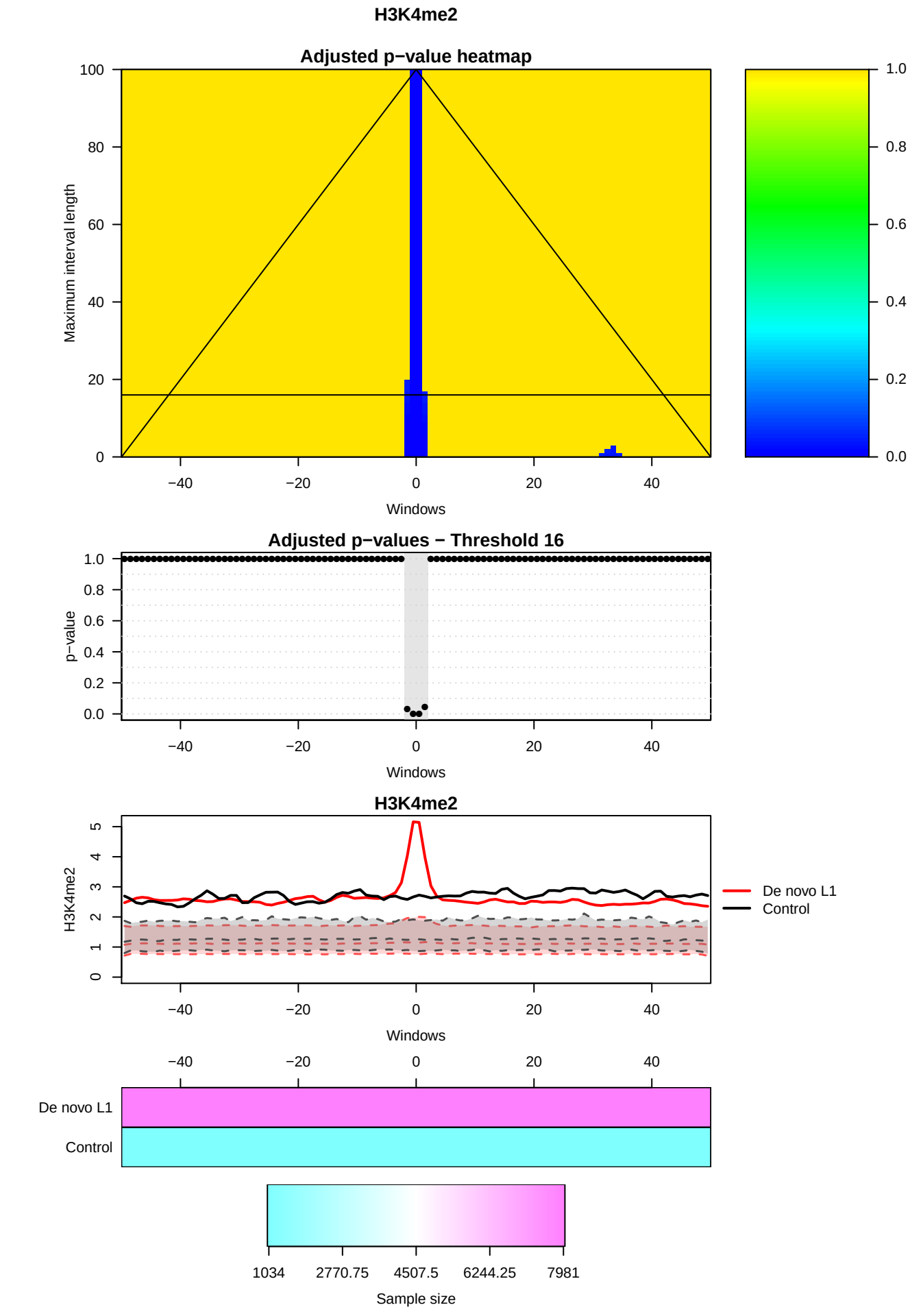

H2AFZ
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 100
p−value
Windows
H2AFZ
H2AFZ
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

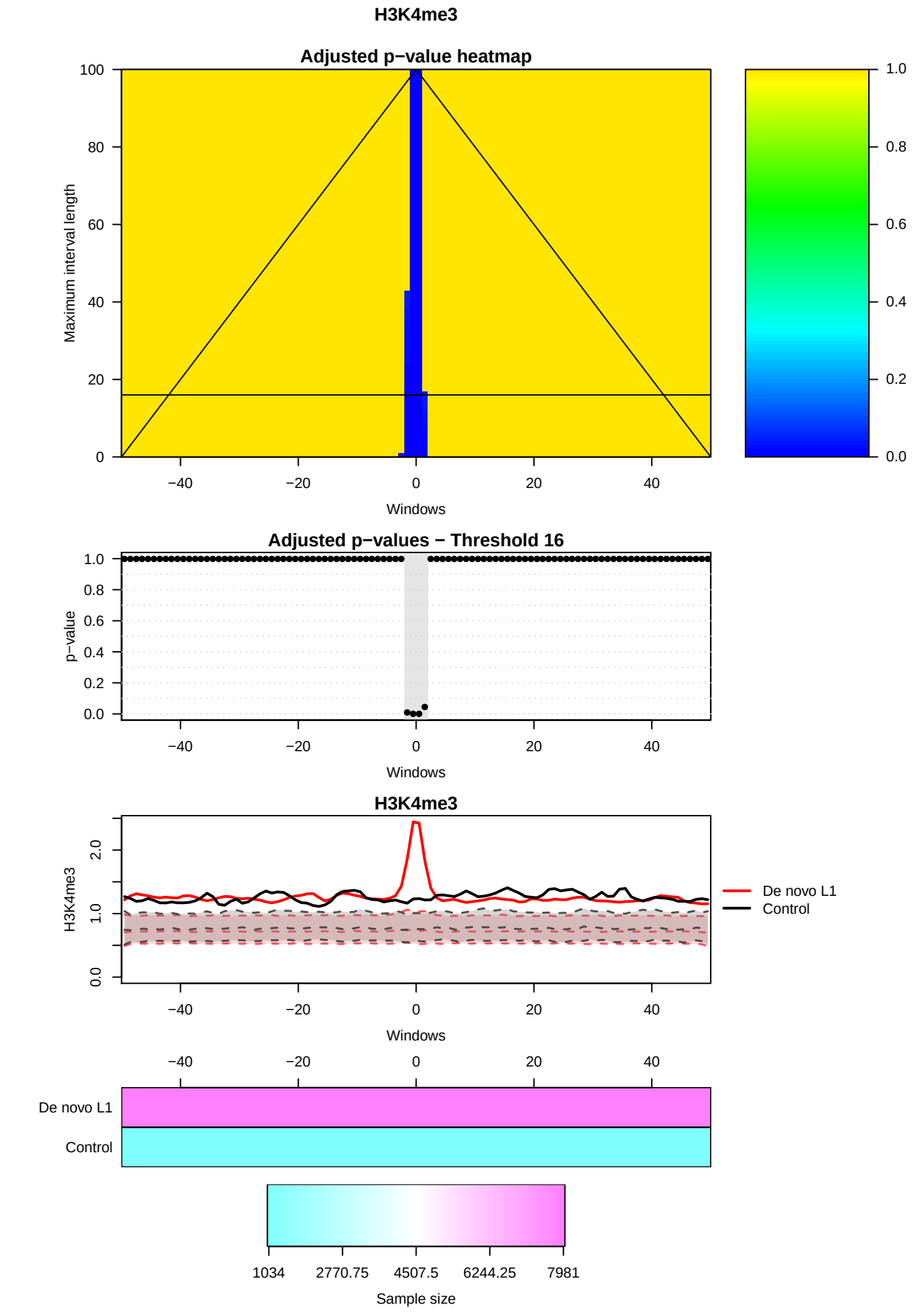

H3K27ac
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 100
p−value
Windows
H3K27ac
H3K27ac
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

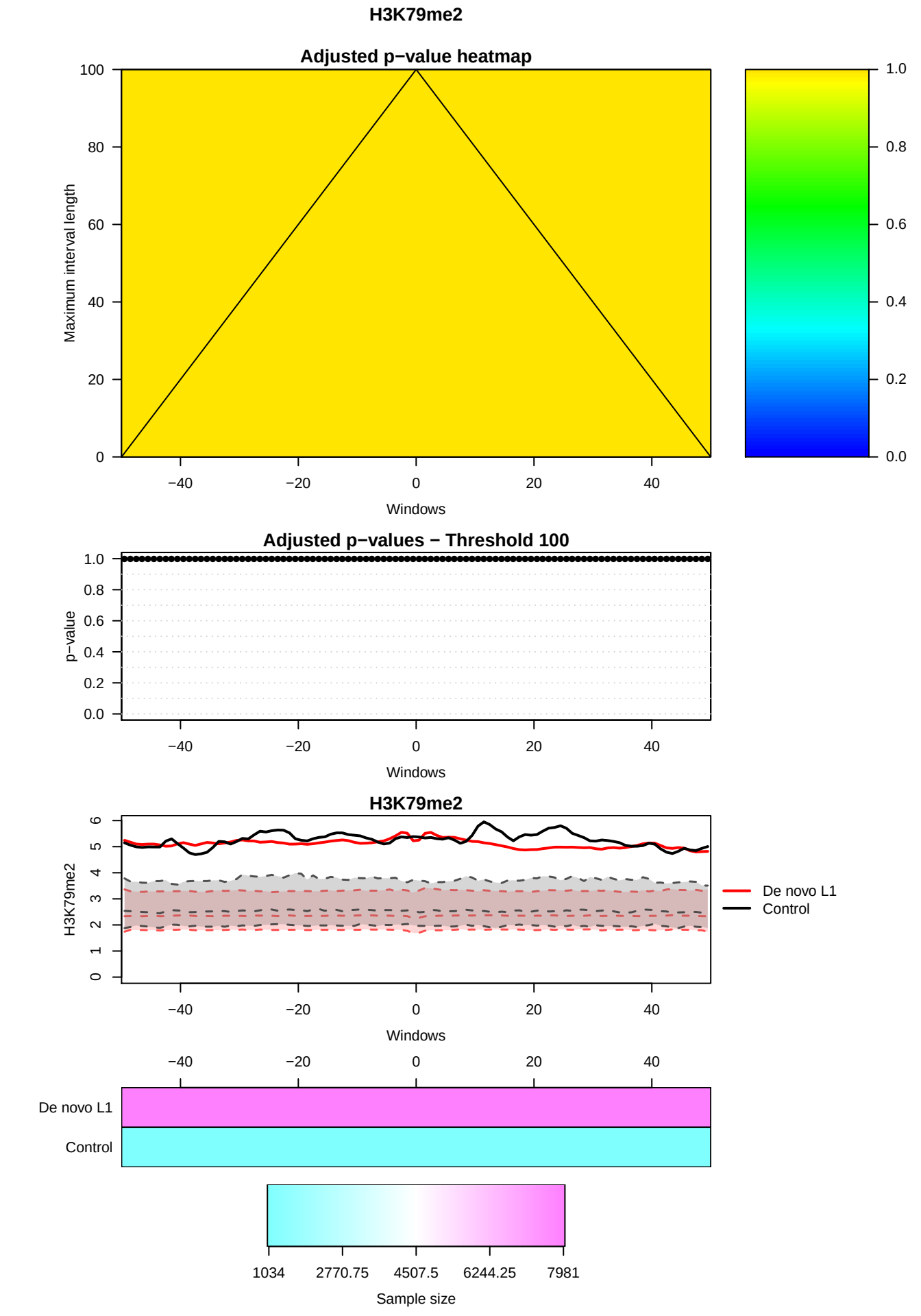

H4K20me1
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 10
p−value
Windows
H4K20me1
H4K20me1
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

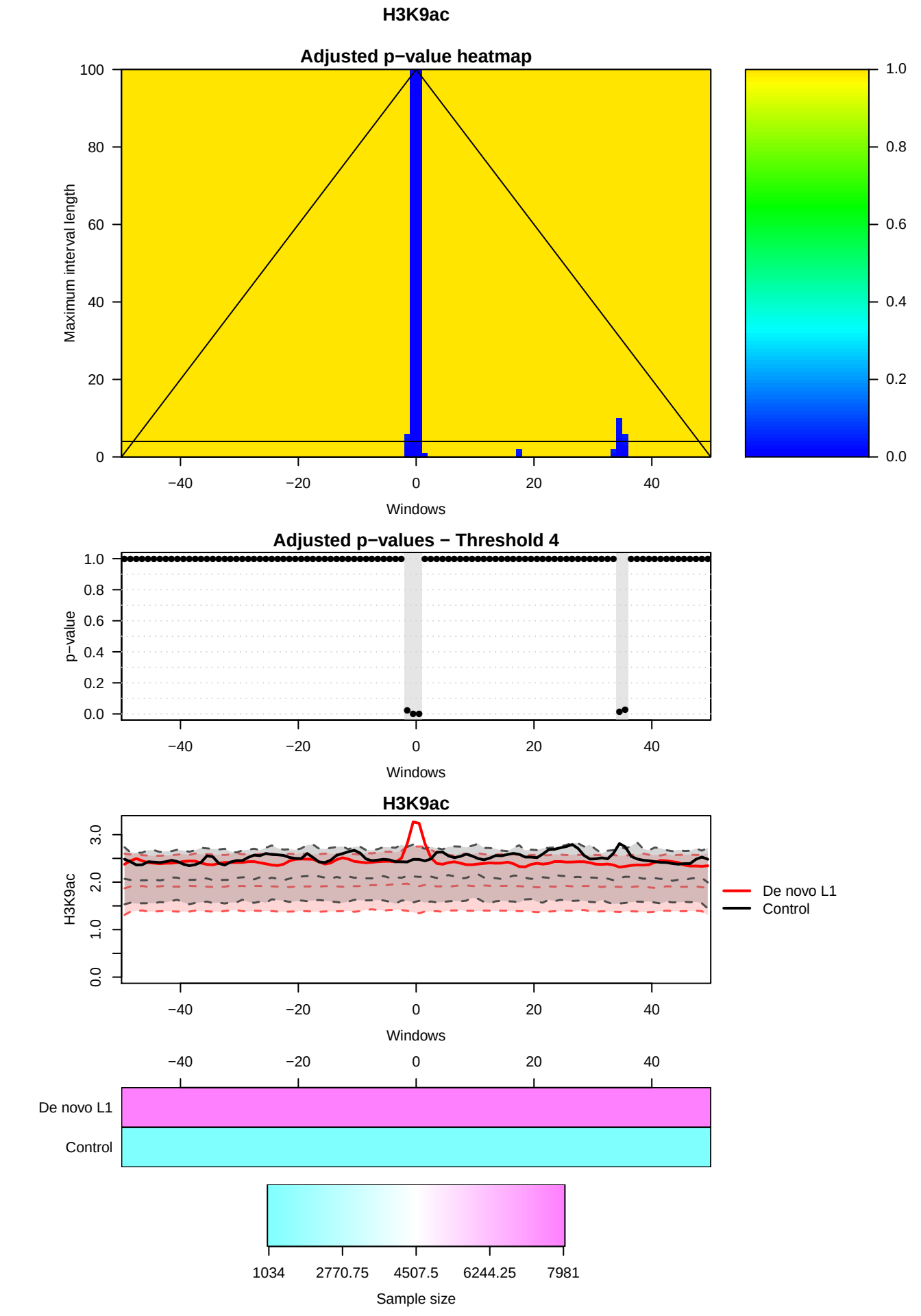

H3K36me3
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 4
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
H3K36me3
H3K36me3
2.0
1.0
0.0
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

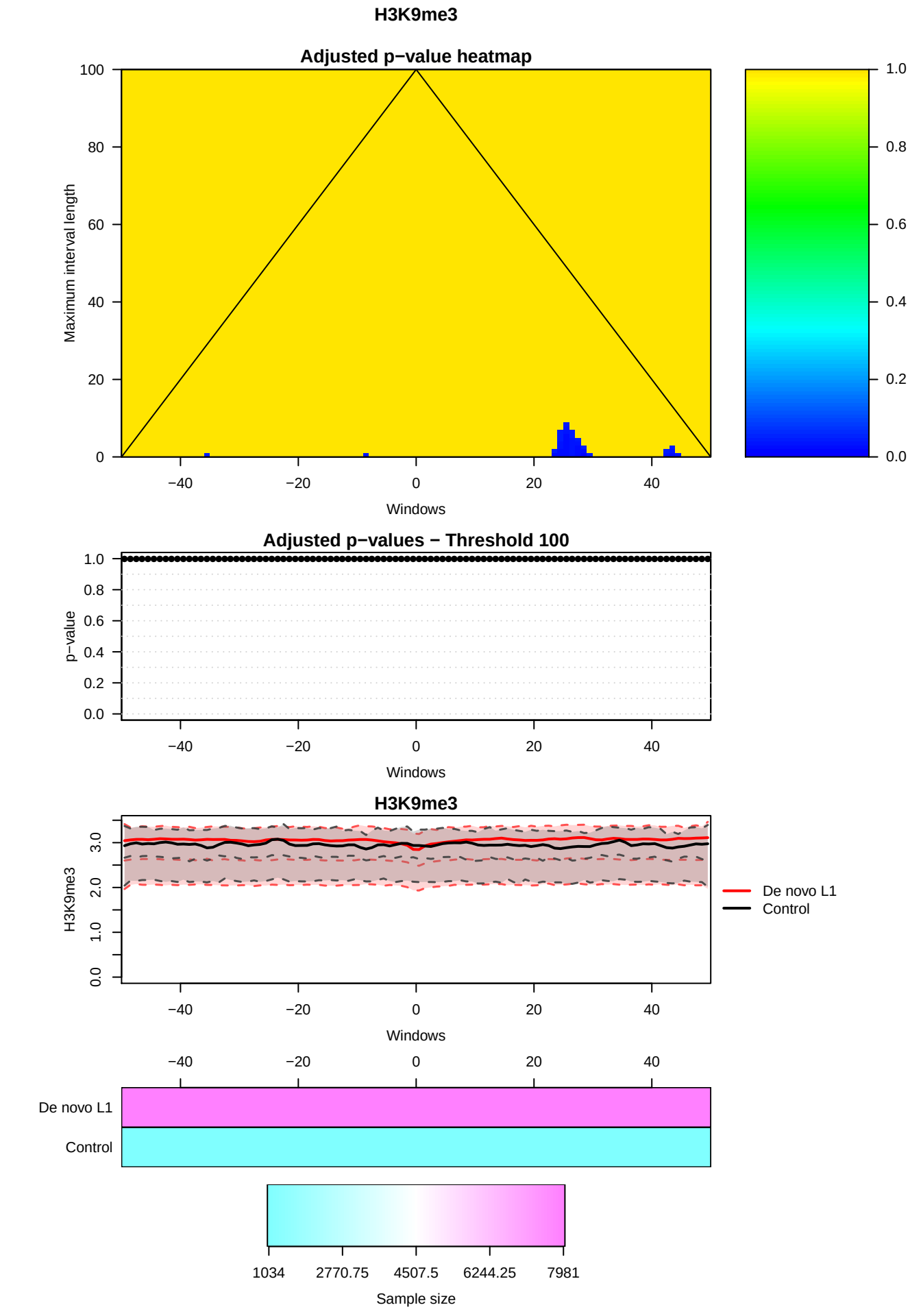

H3K4me1
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
H3K4me1
H3K4me1
3.0
2.0
1.0
0.0
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

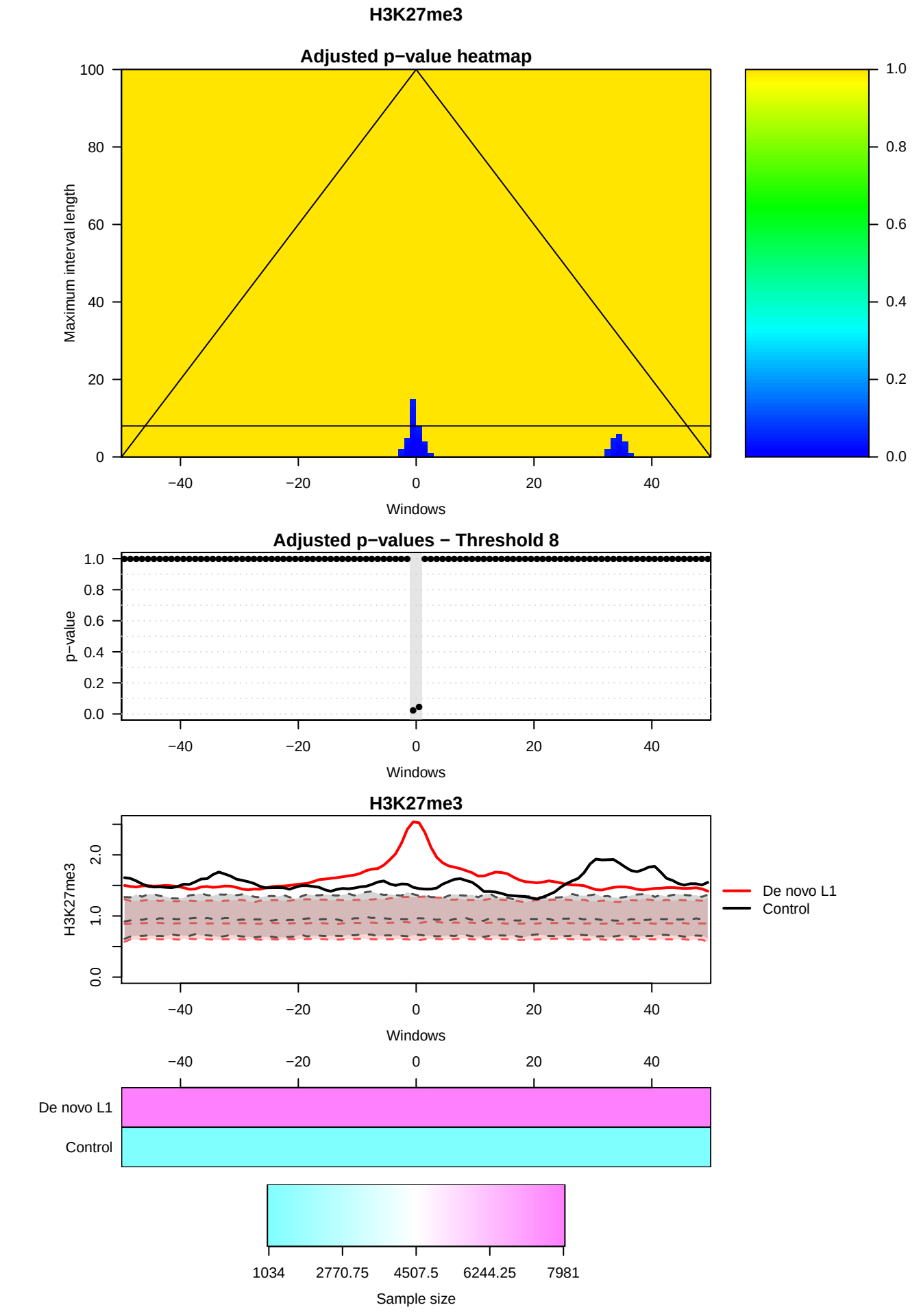

H3K4me2
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 16
p−value
Windows
H3K4me2
H3K4me2
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

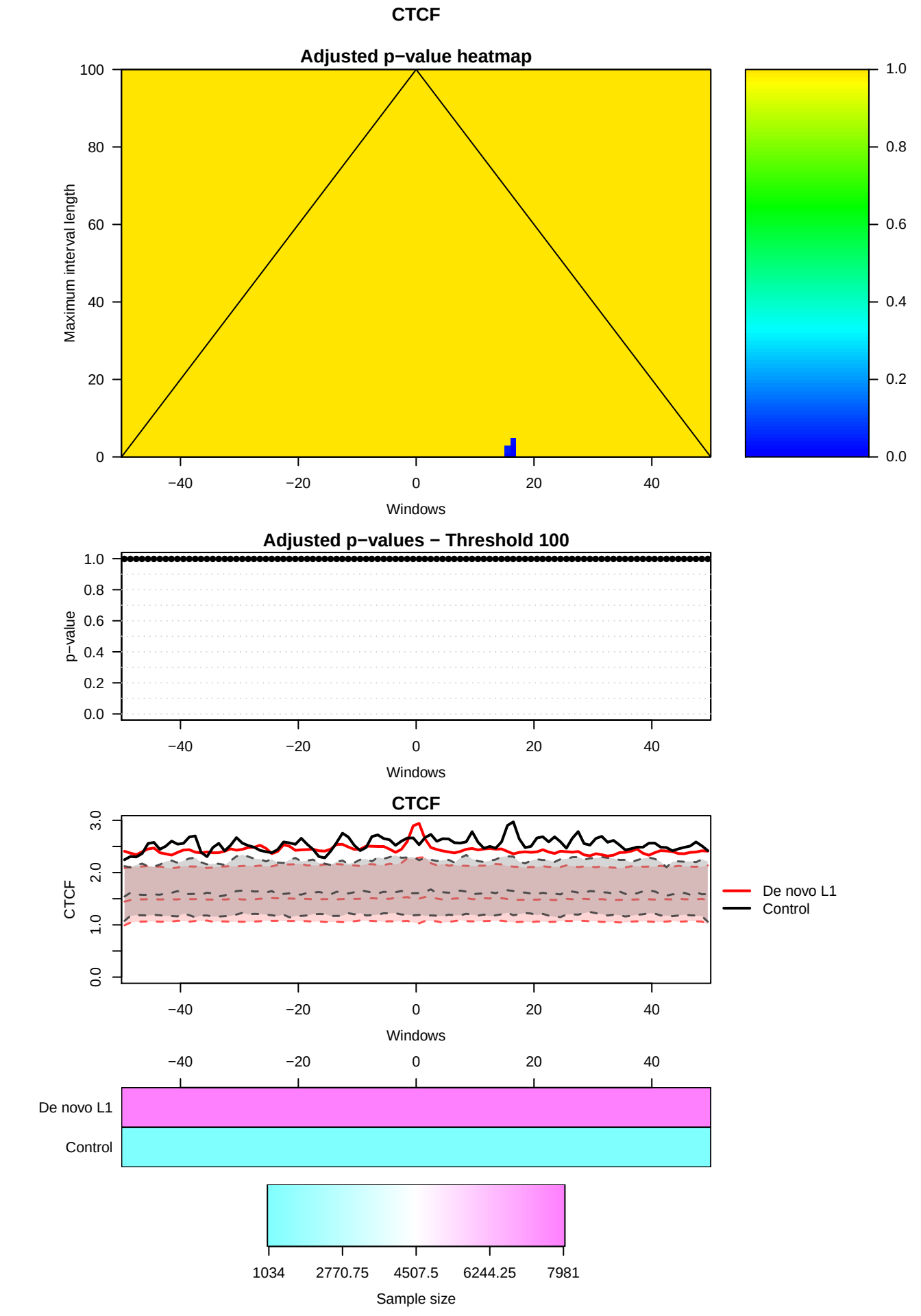

H3K4me3
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 16
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
H3K4me3
H3K4me3
2.0
1.0
0.0
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

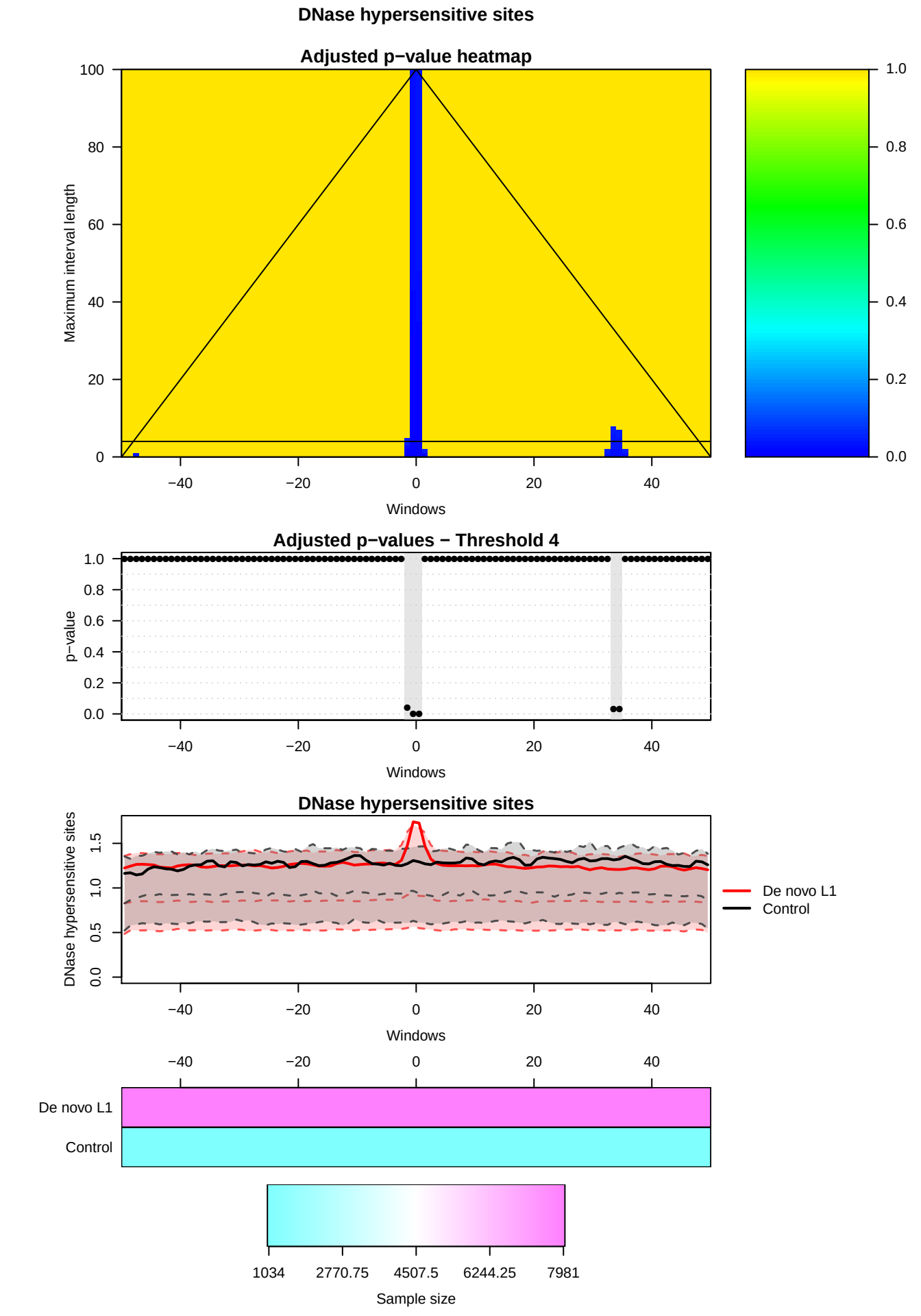

H3K79me2
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
H3K79me2
H3K79me2
0
1
2
3
4
5
6
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

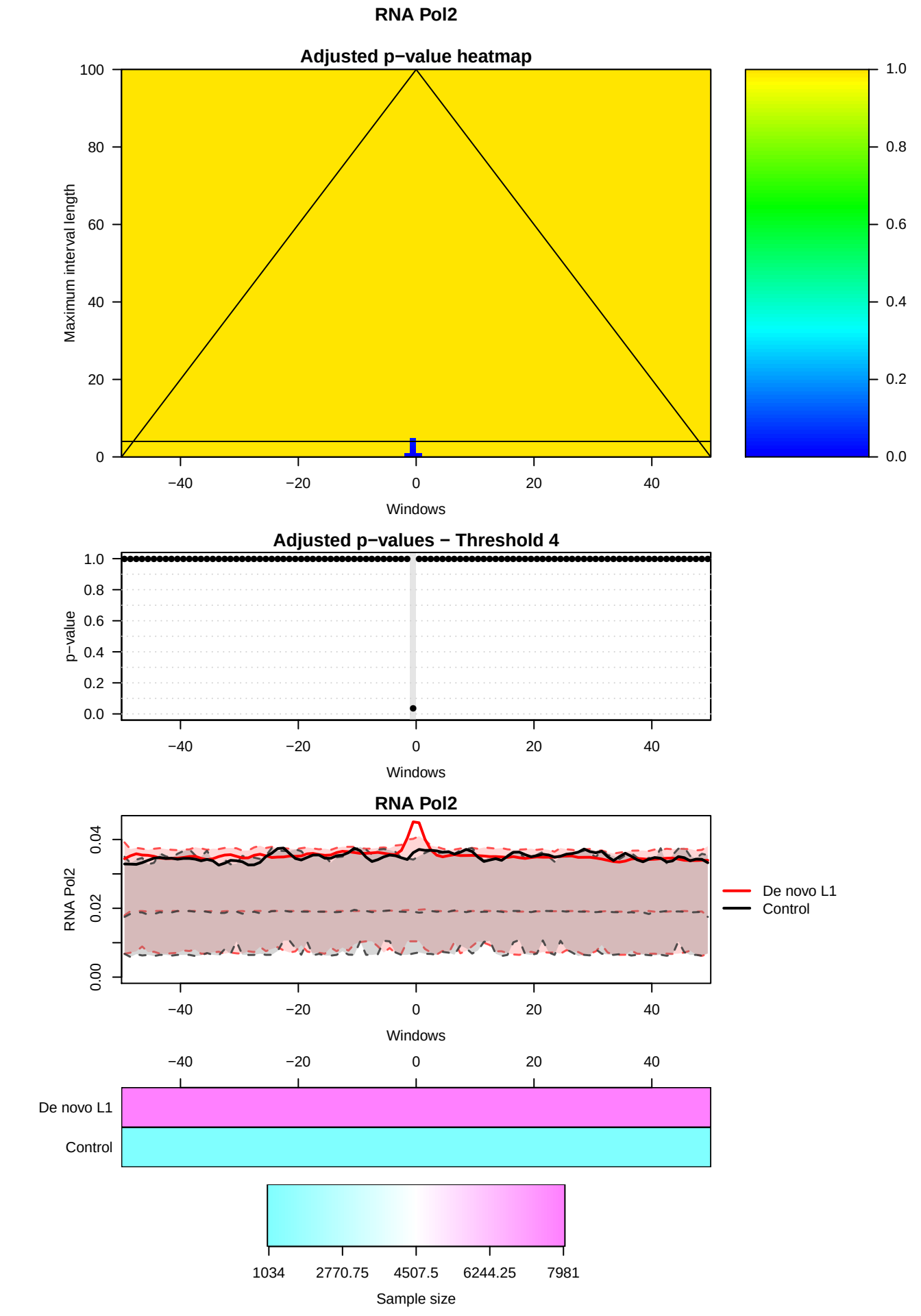

H3K9ac
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 4
p−value
Windows
H3K9ac
H3K9ac
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

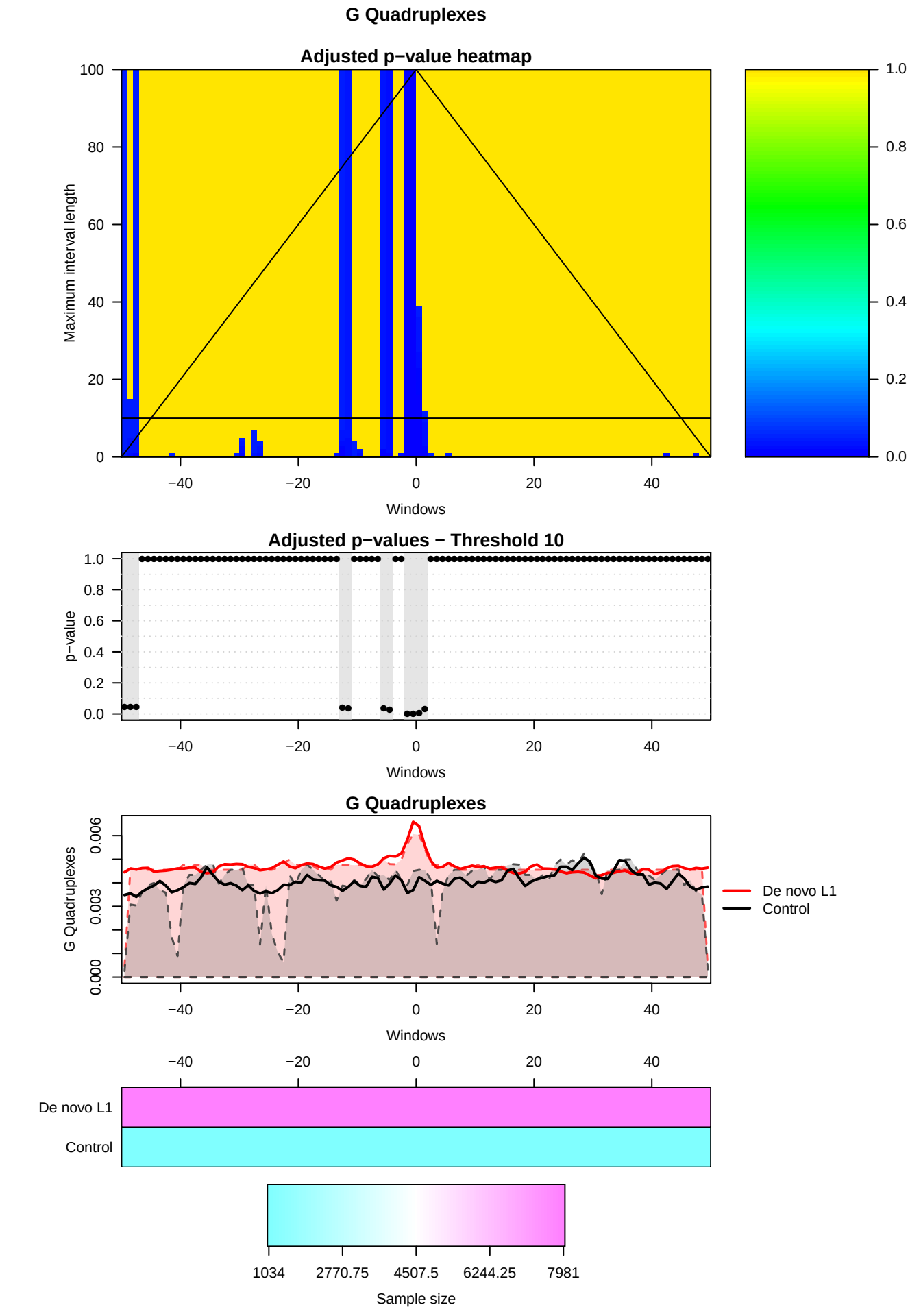

H3K9me3
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
H3K9me3
H3K9me3
0.0
1.0
2.0
3.0
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

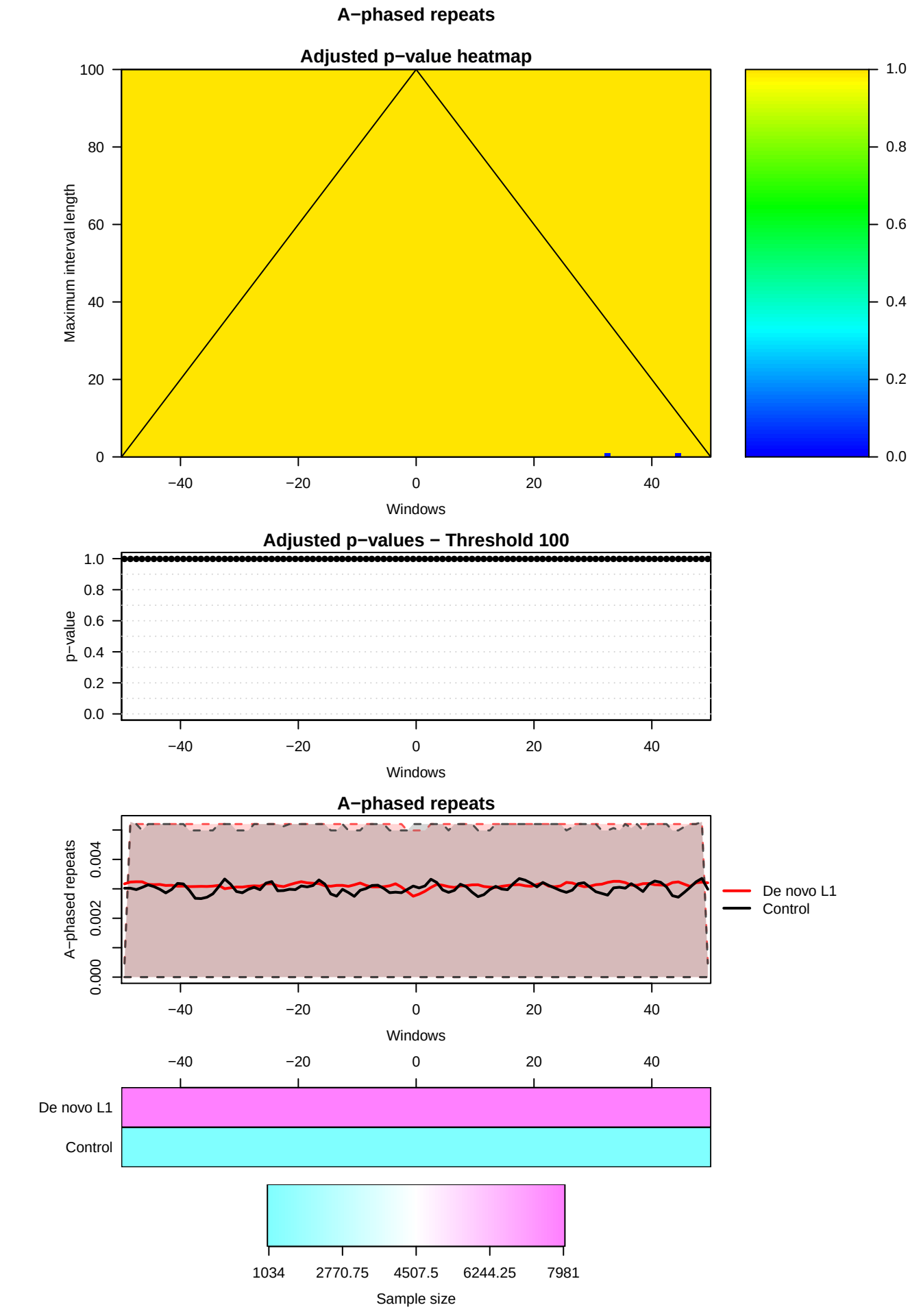

H3K27me3
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 8
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
H3K27me3
H3K27me3
2.0
1.0
0.0
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

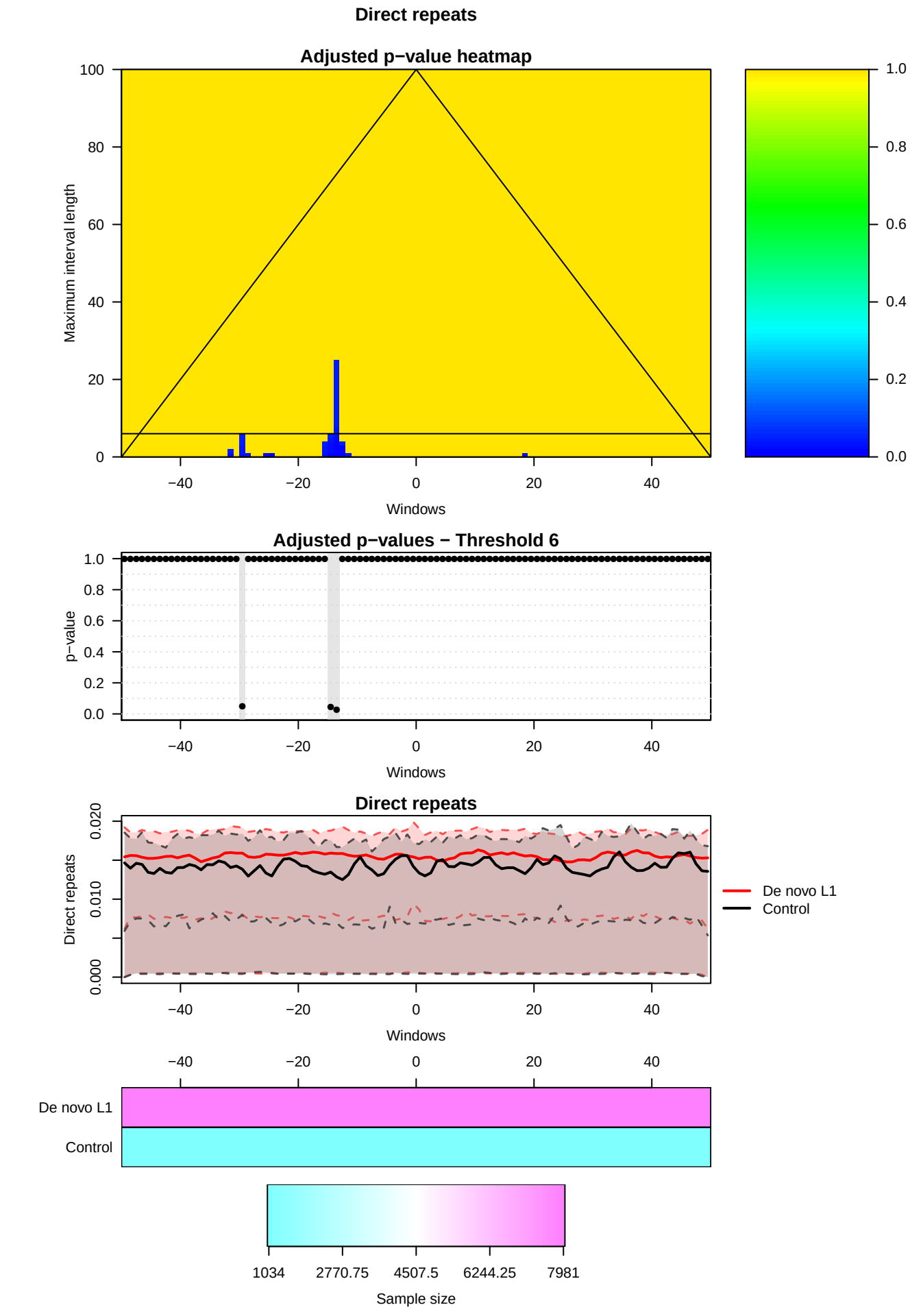

CTCF
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
CTCF
CTCF
3.0
2.0
1.0
0.0
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

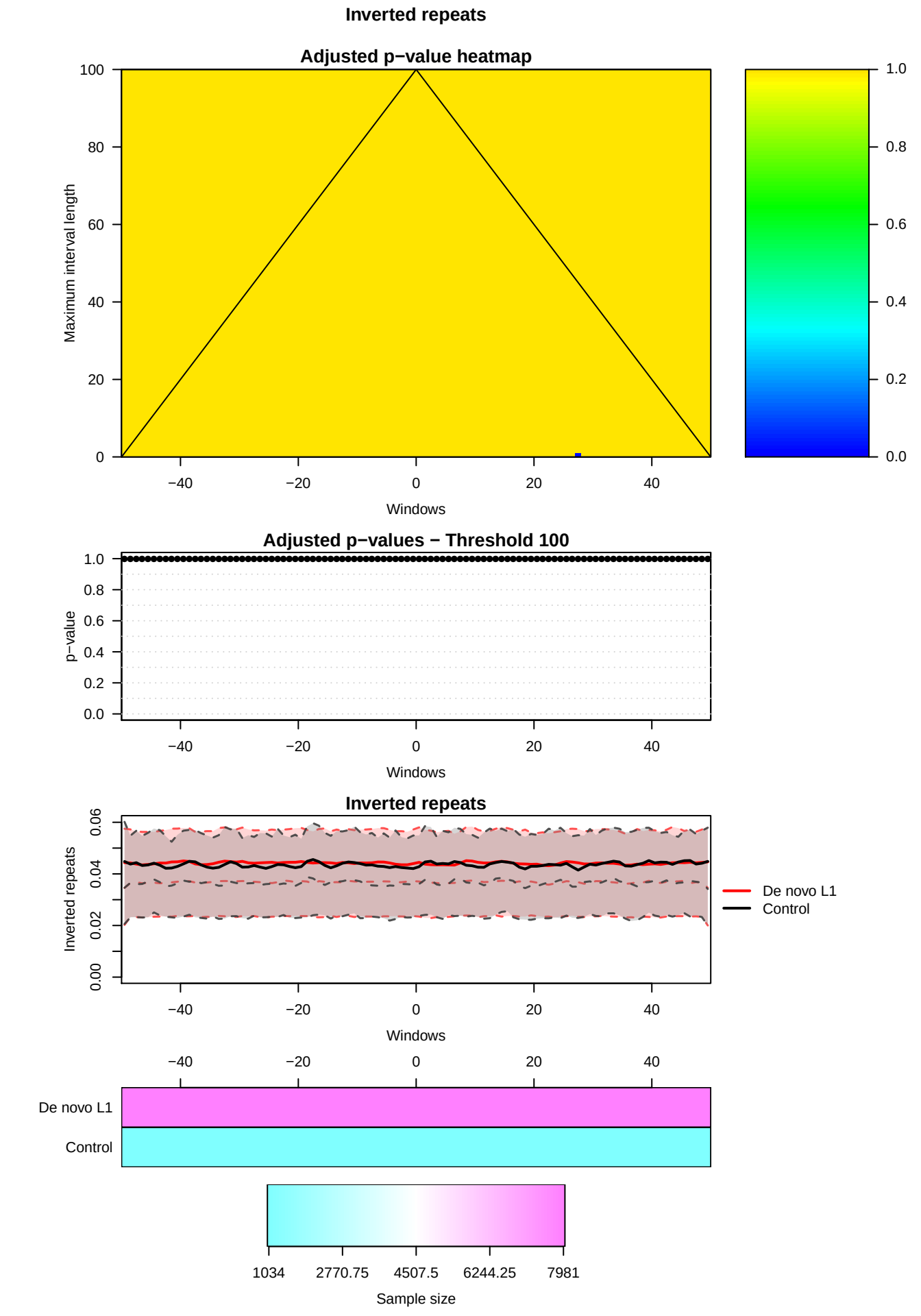

DNase hypersensitive sites
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 4
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
DNase hypersensitive sites
DNase hypersensitive sites
0.0
0.5
1.0
1.5
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

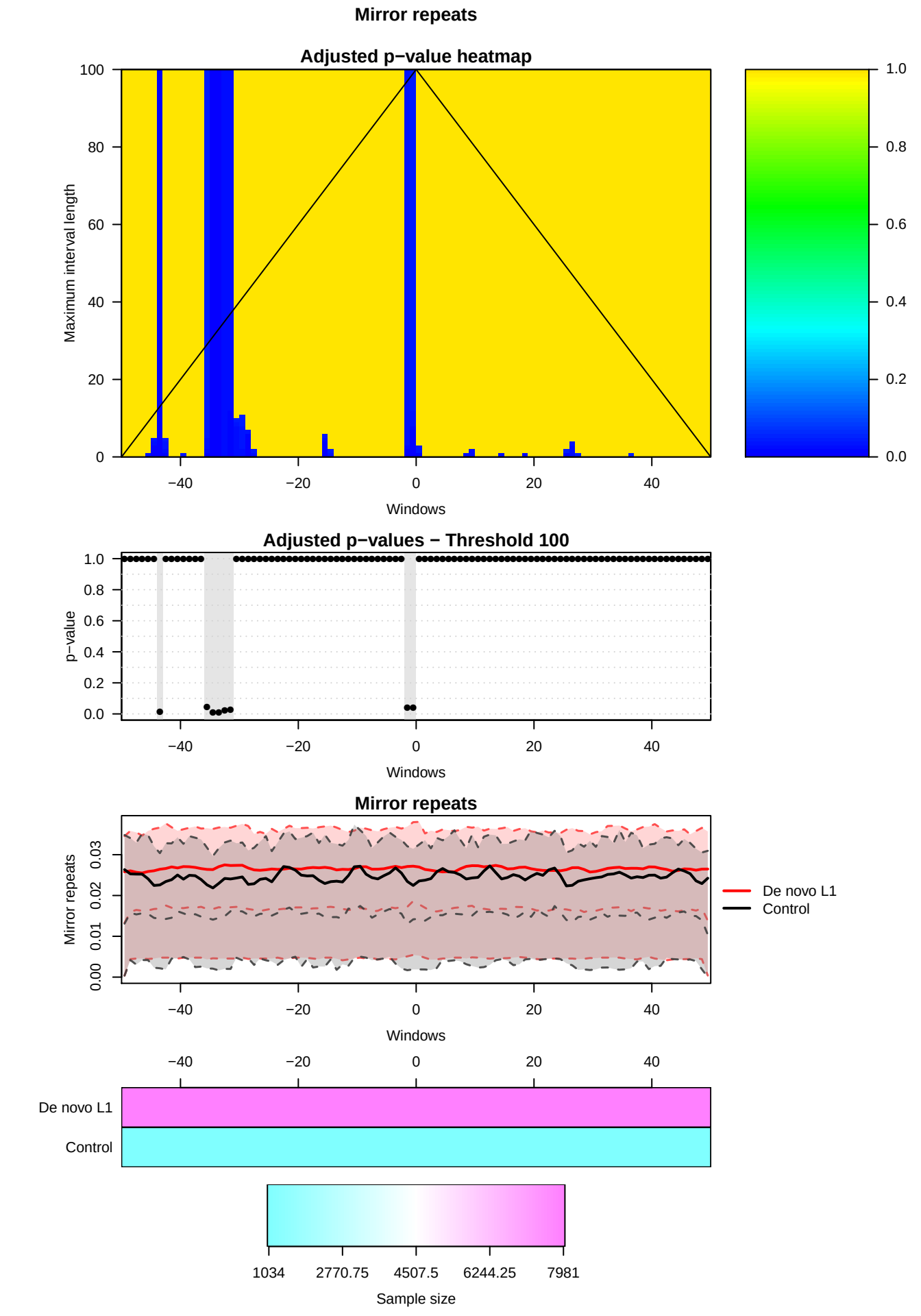

RNA Pol2
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 4
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
RNA Pol2
RNA Pol2
0.04
0.02
0.00
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

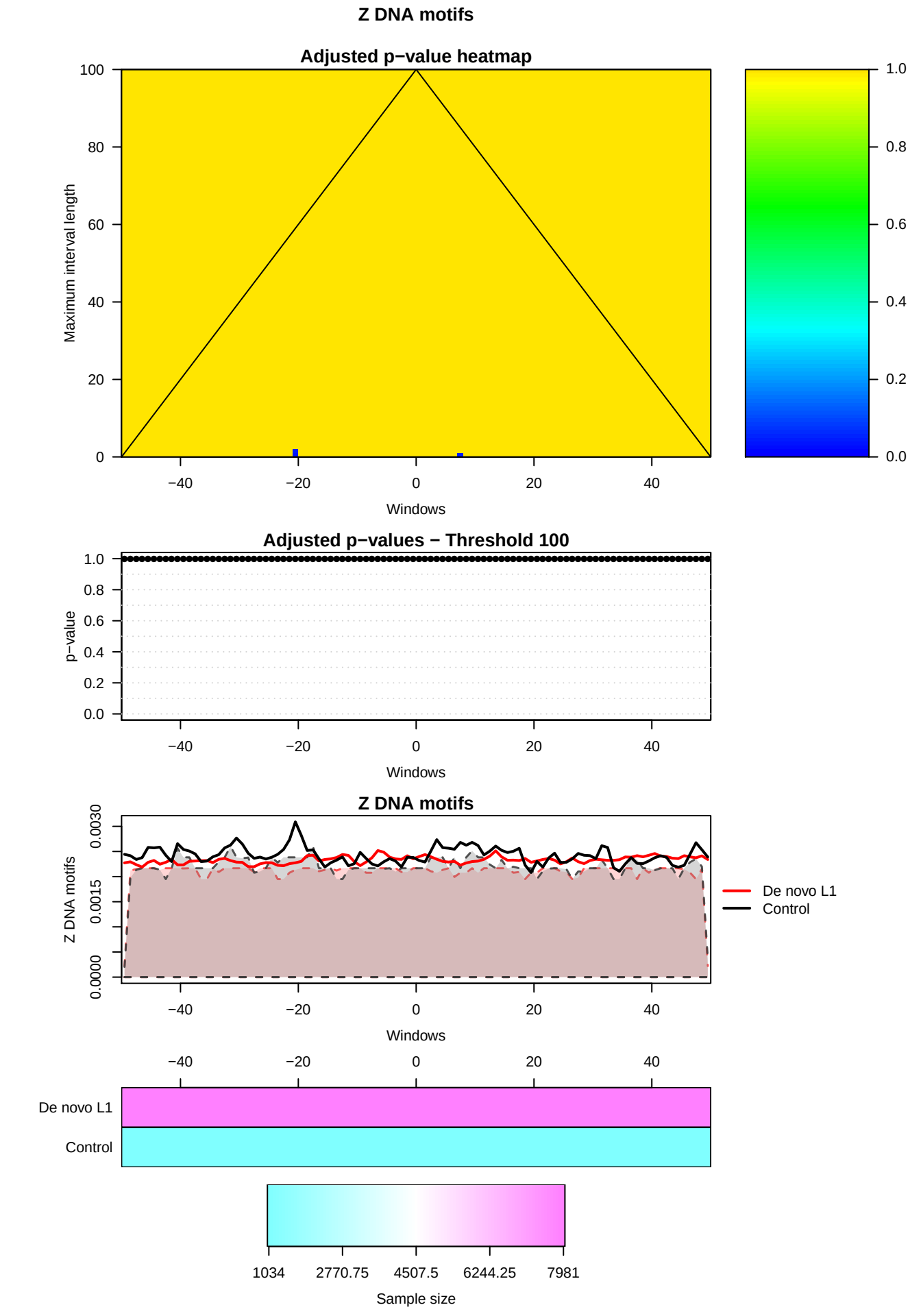

G Quadruplexes
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 10
p−value
Windows
G Quadruplexes
G Quadruplexes
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

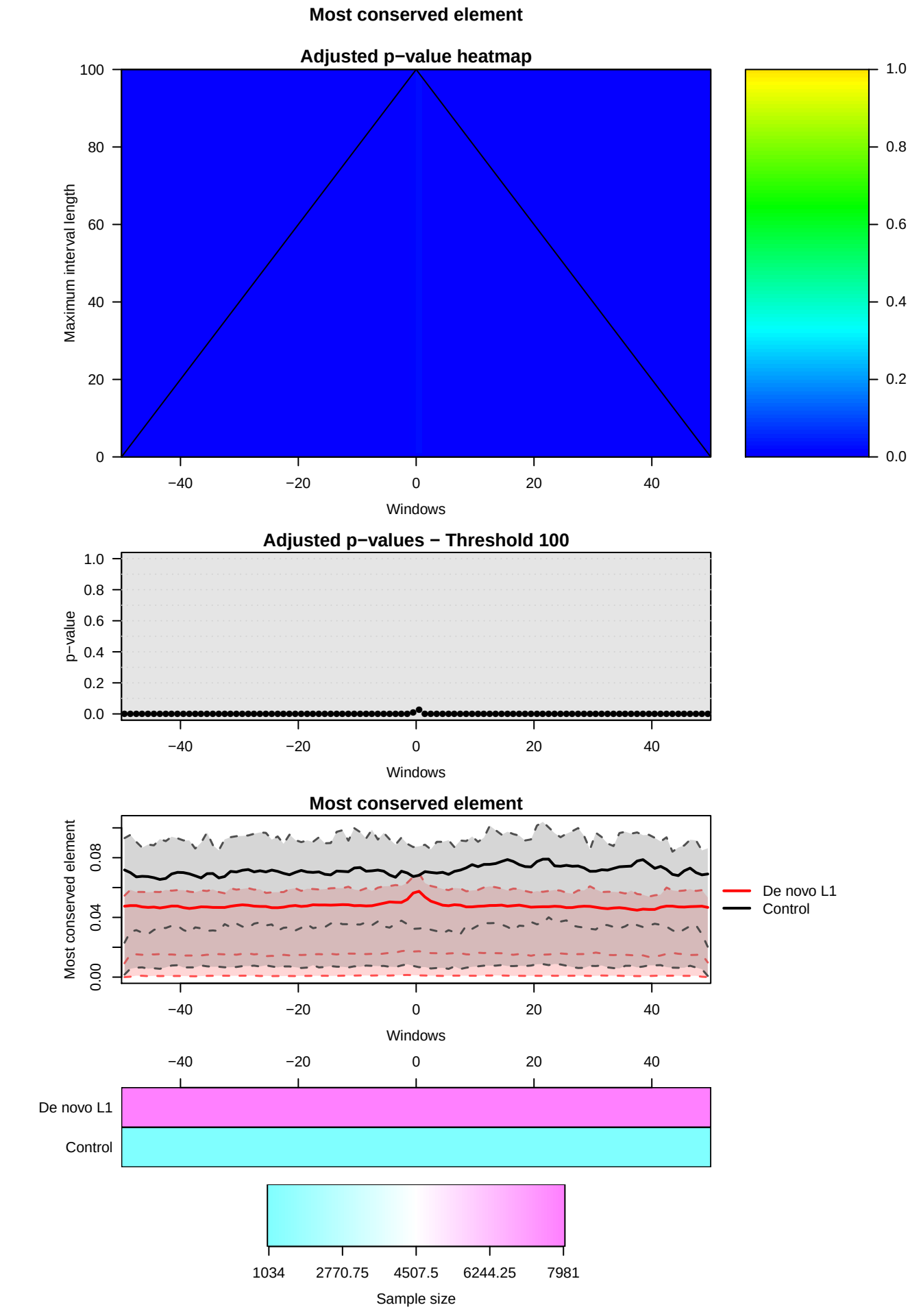

A−phased repeats
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
A−phased repeats
A−phased repeats
0.000
0.002
0.004
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

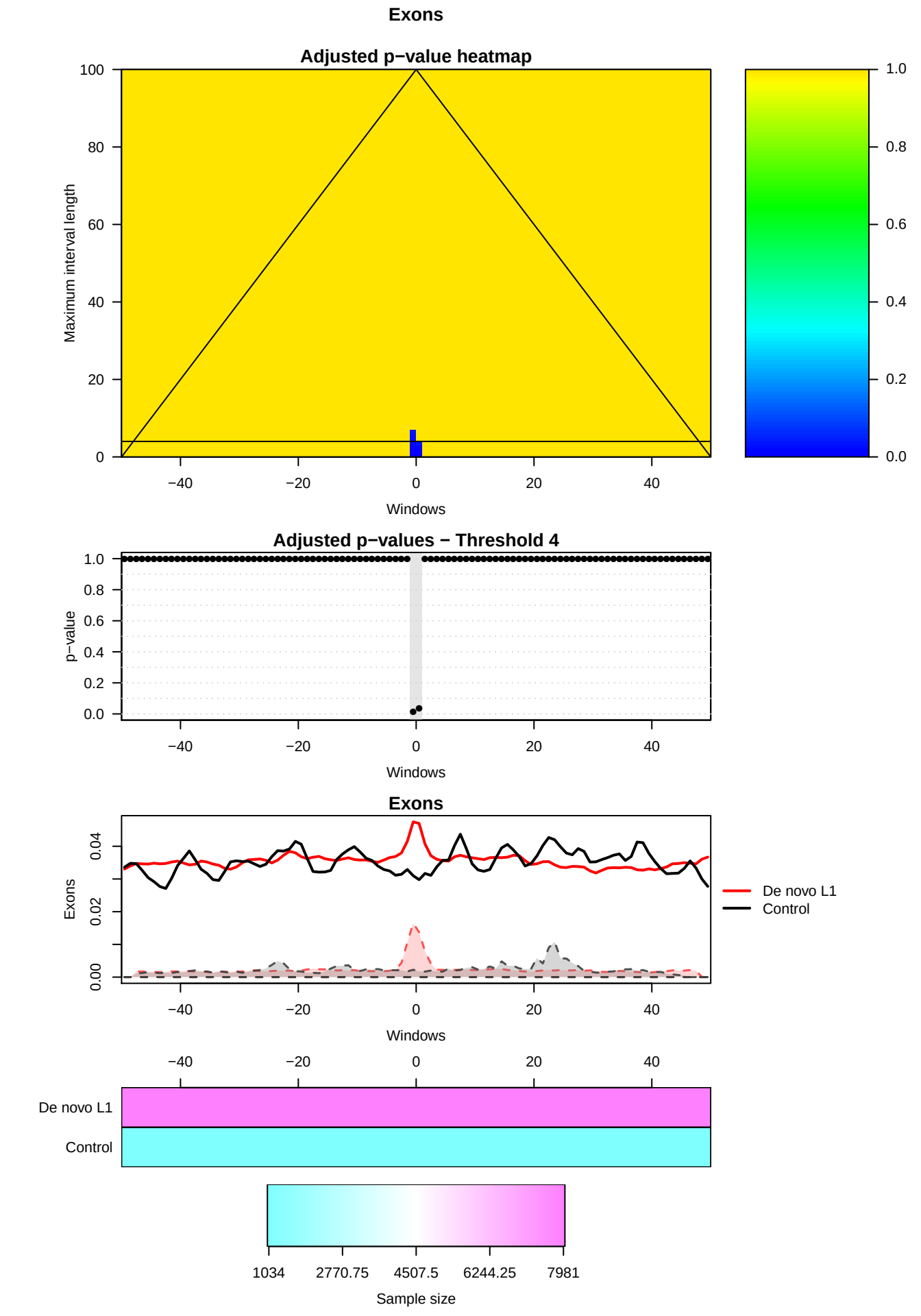

Direct repeats
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 6
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
Direct repeats
Direct repeats
0.020
0.010
0.000
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

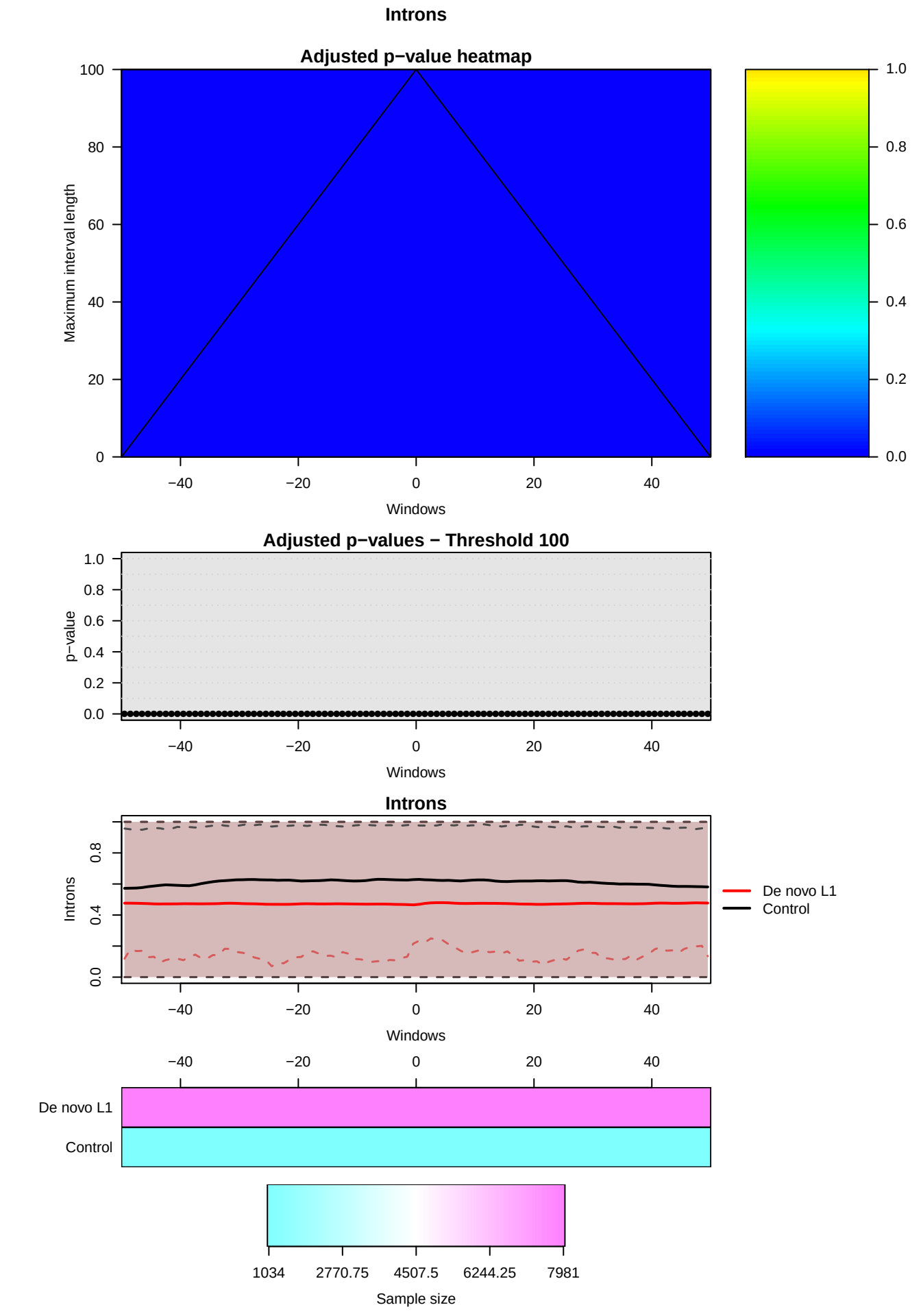

Inverted repeats
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
Inverted repeats
Inverted repeats
0.06
0.04
0.02
0.00
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

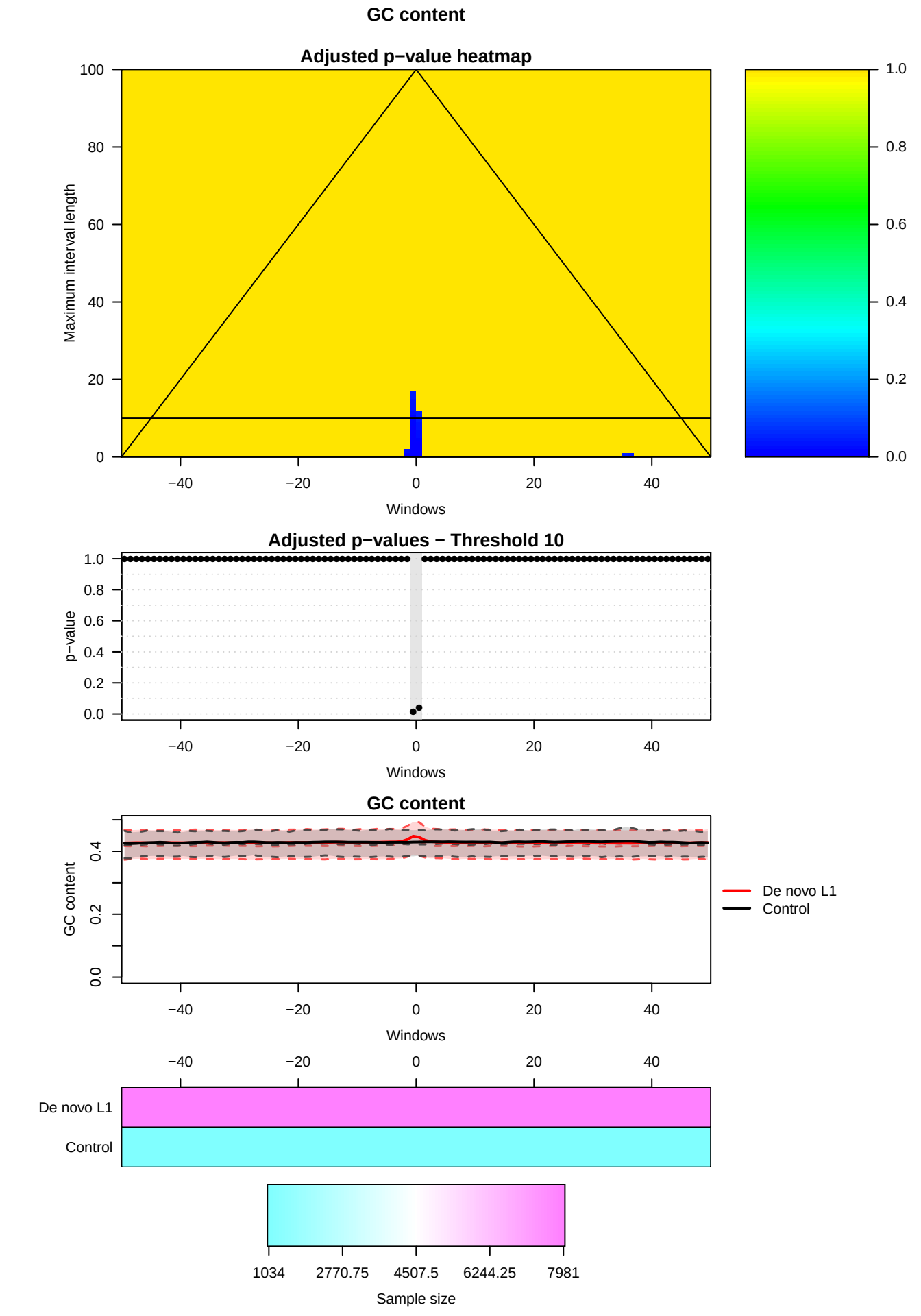

Mirror repeats
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 100
p−value
Windows
Mirror repeats
Mirror repeats
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

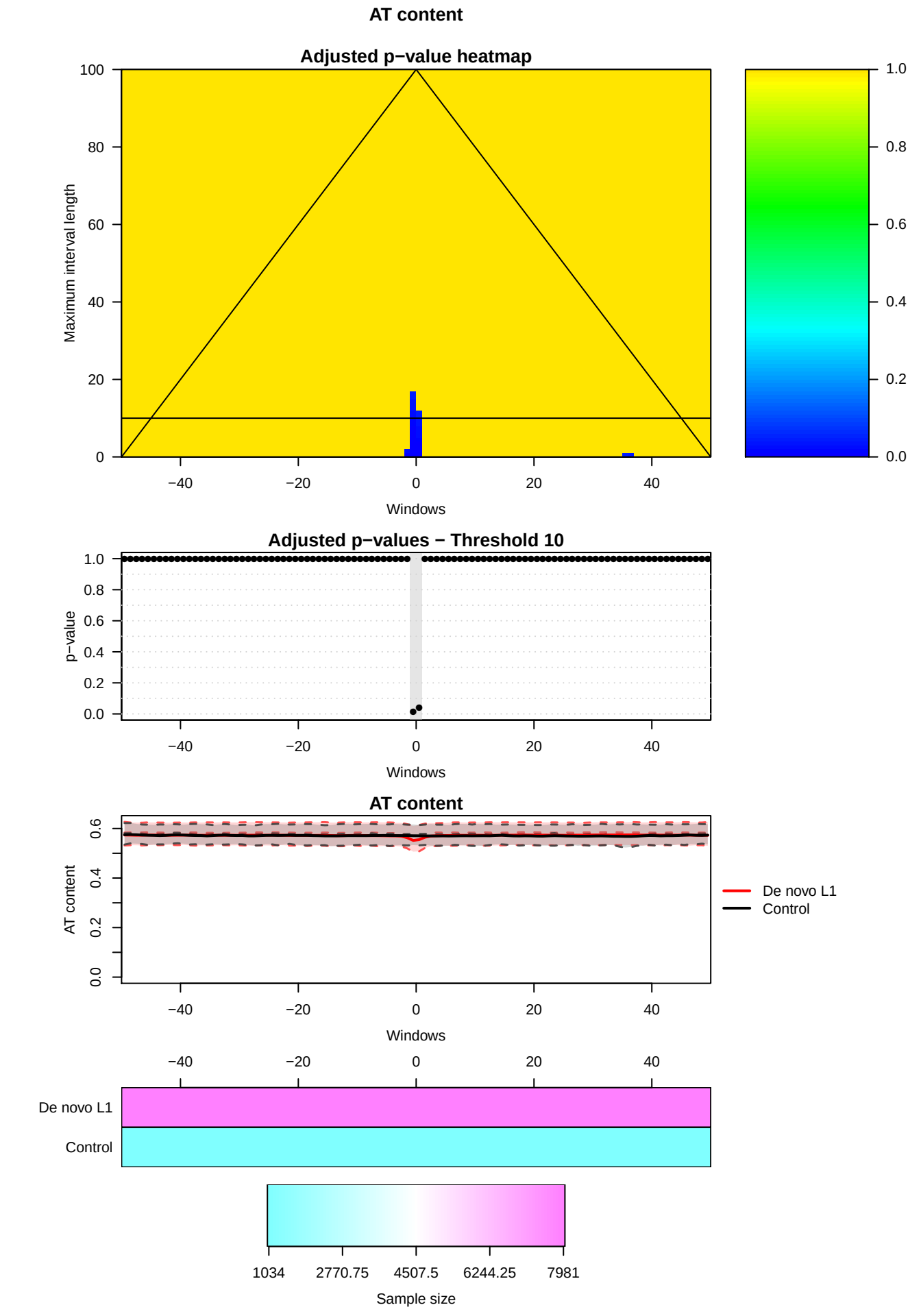

Z DNA motifs
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
Z DNA motifs
Z DNA motifs
0.0030
0.0015
0.0000
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

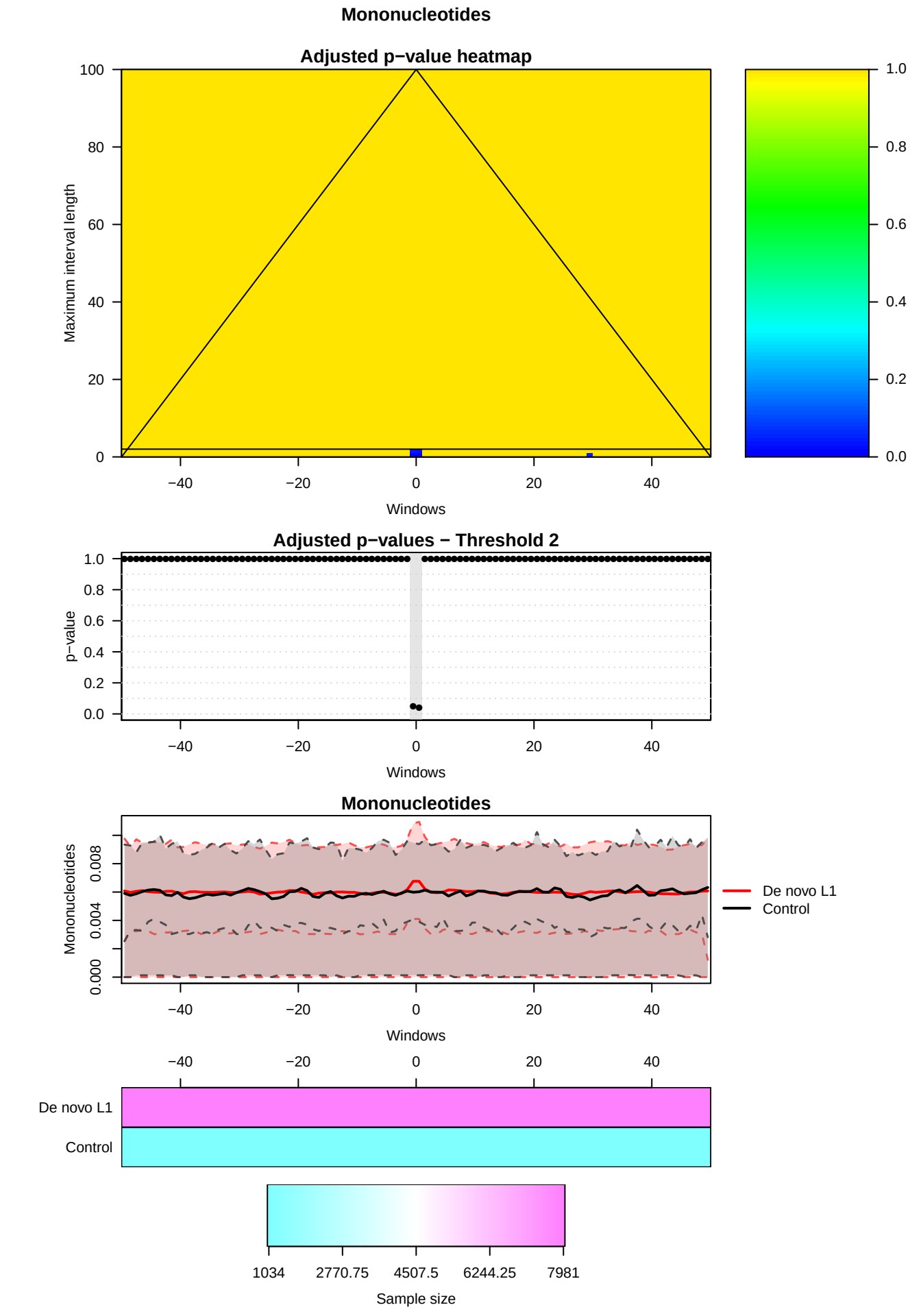

Most conserved element
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
Most conserved element
Most conserved element
0.00
0.04
0.08
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

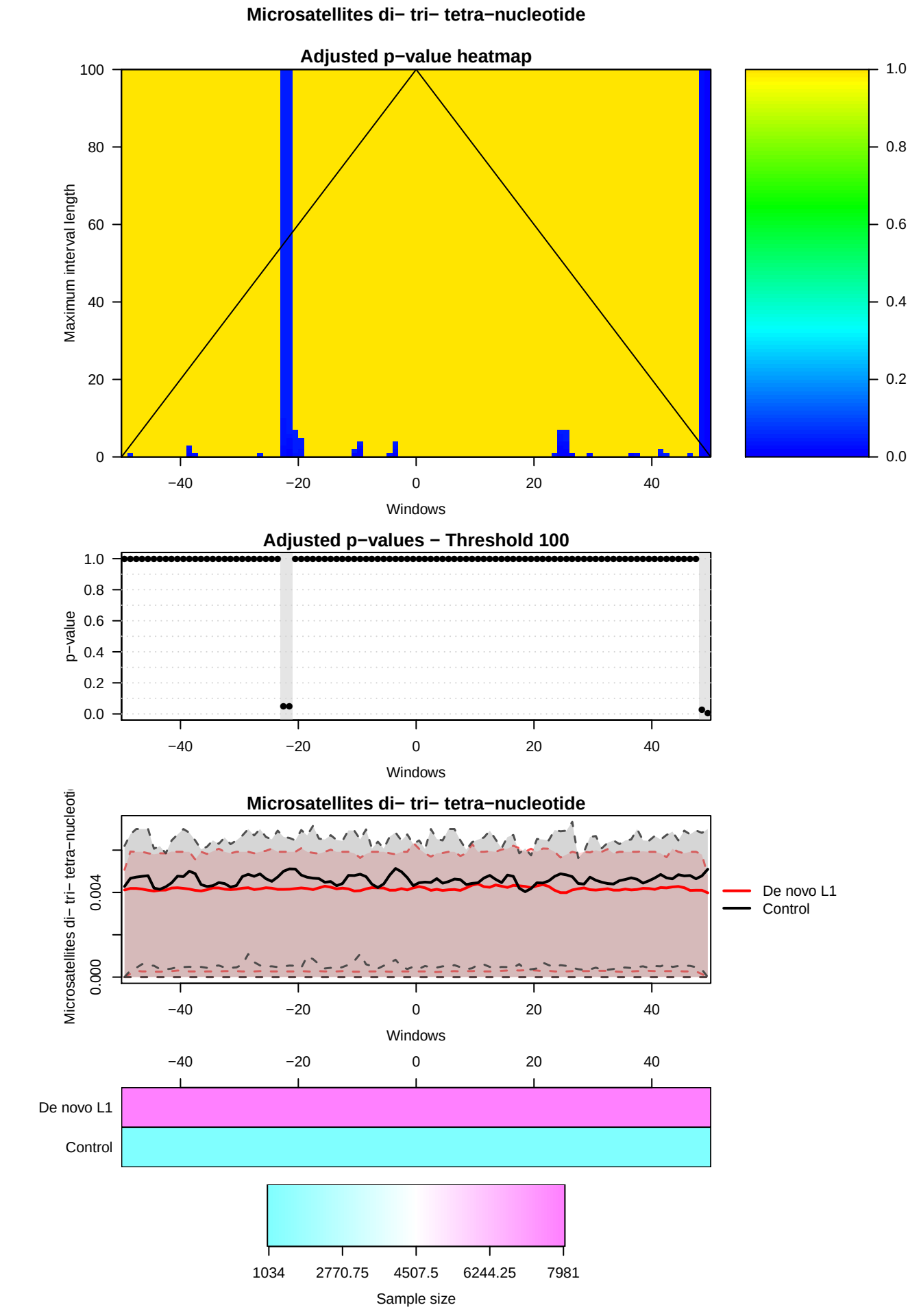

Exons
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 4
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
Exons
Exons
0.04
0.02
0.00
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

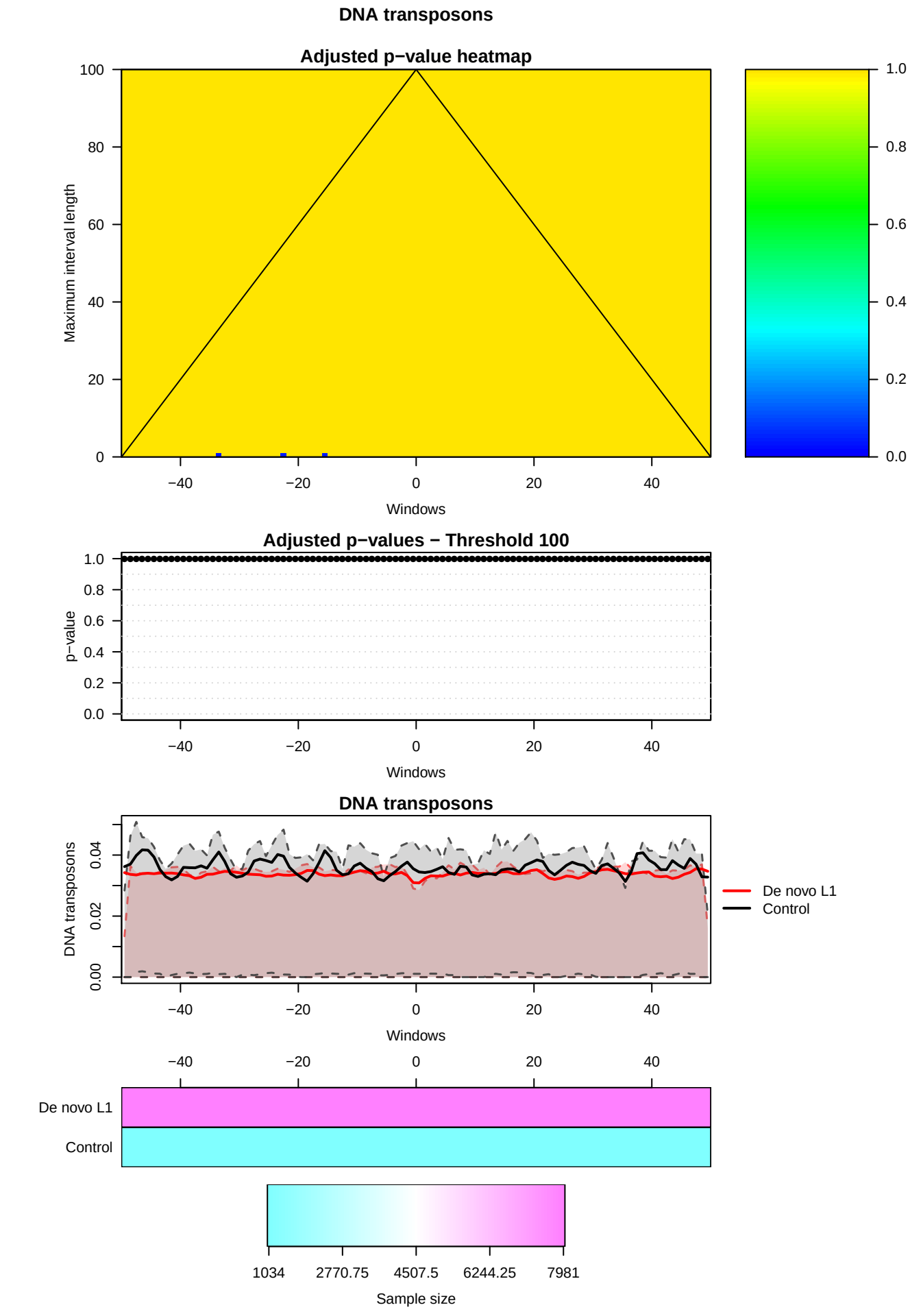

Introns
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
Introns
Introns
0.0
0.4
0.8
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

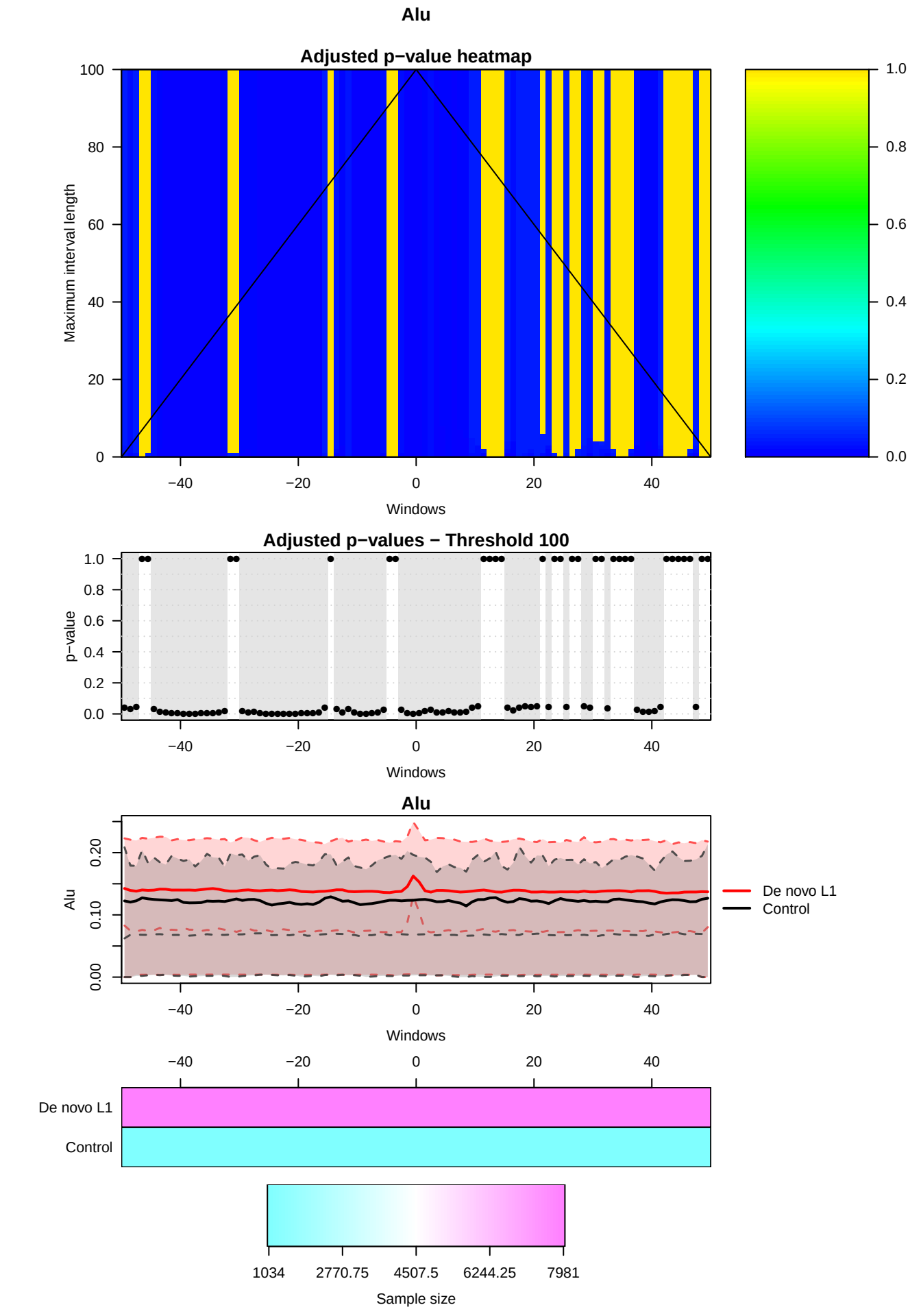

GC content
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 10
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
GC content
GC content
0.0
0.2
0.4
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

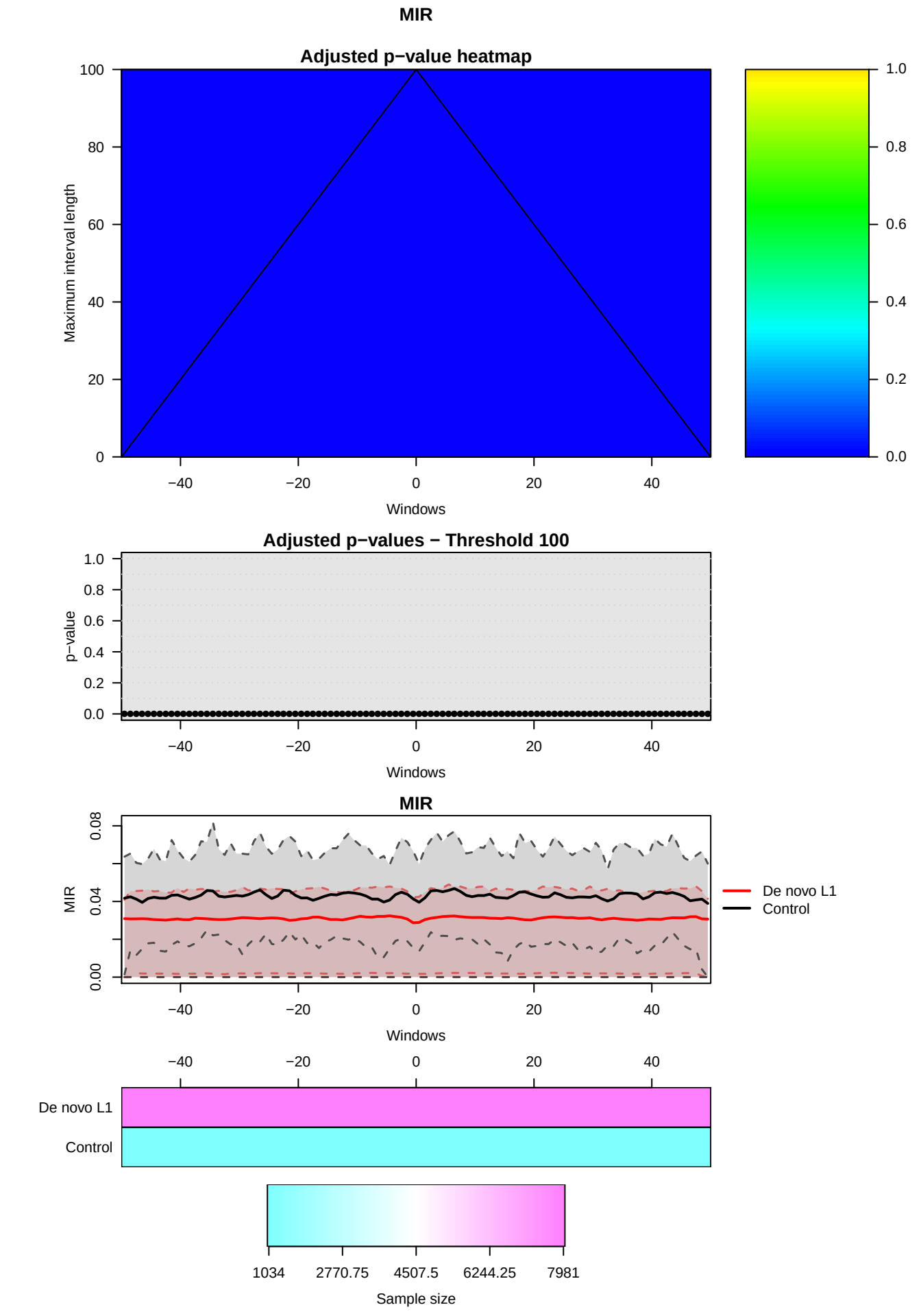

AT content
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 10
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
AT content
AT content
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

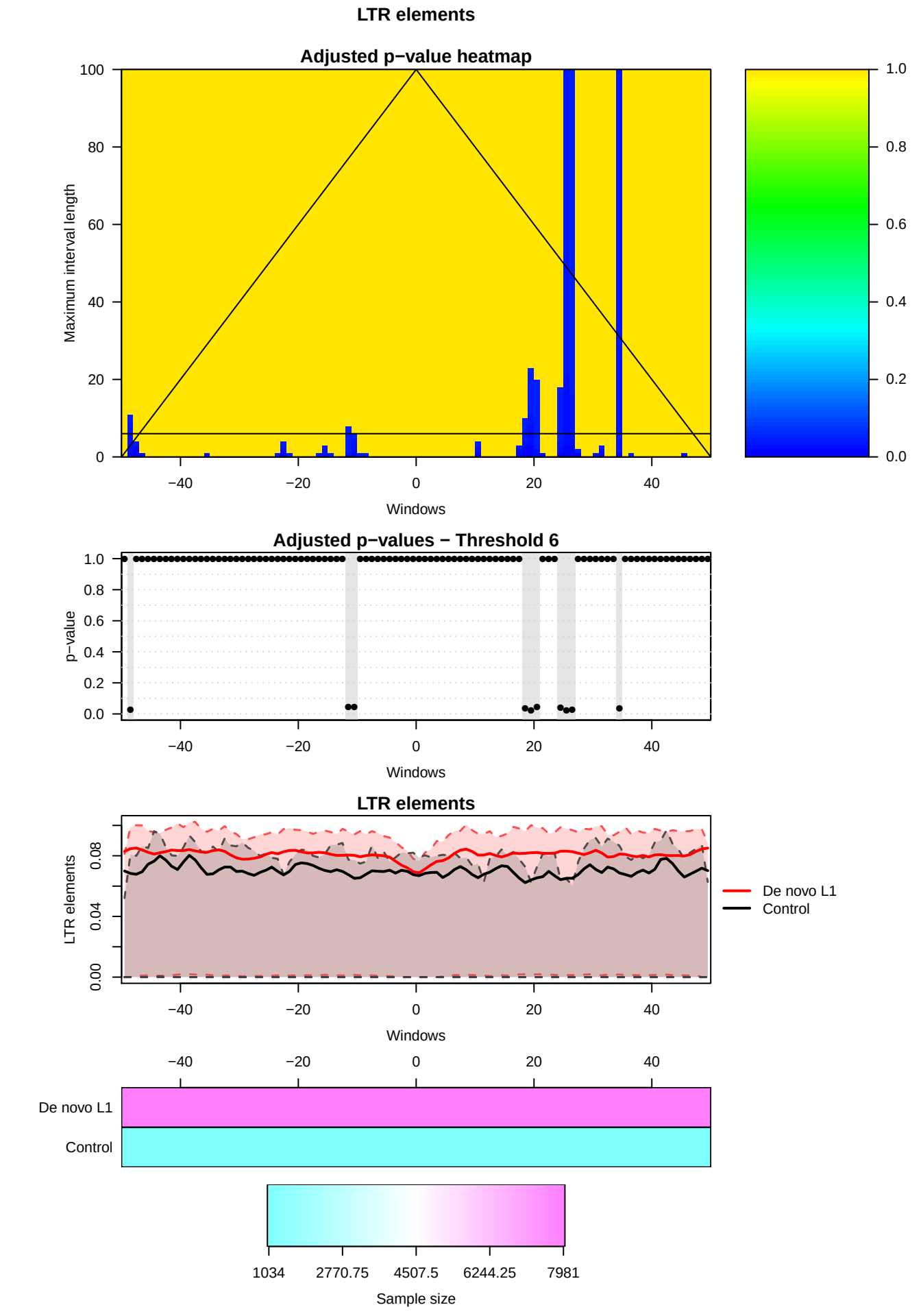

Mononucleotides
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 2
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
Mononucleotides
Mononucleotides
0.000
0.004
0.008
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

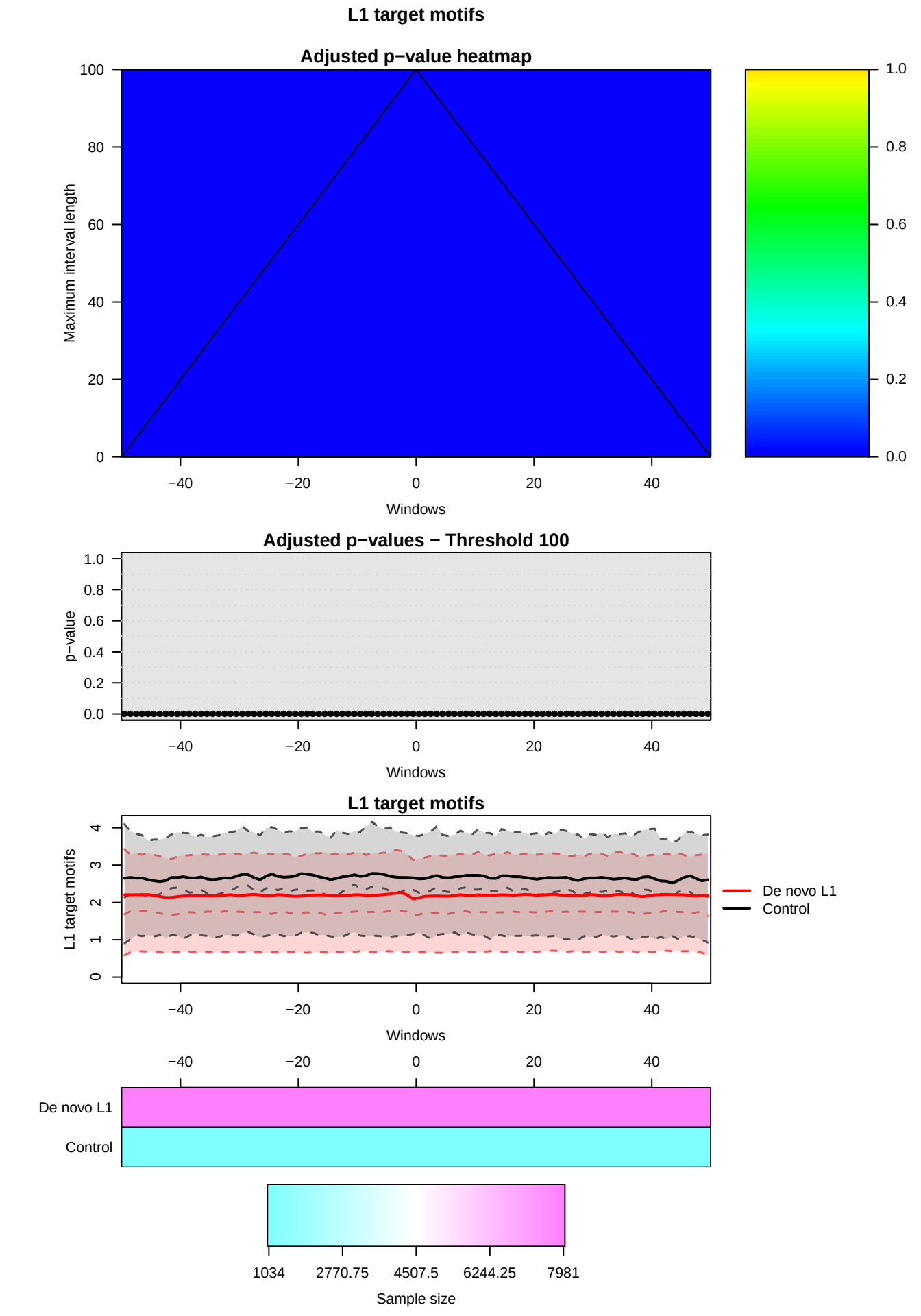

Microsatellites di− tri− tetra−nucleotide
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 100
p−value
Windows
Microsatellites di− tri− tetra−nucleotide
Microsatellites di− tri− tetra−nucleoti
0.004
0.000
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

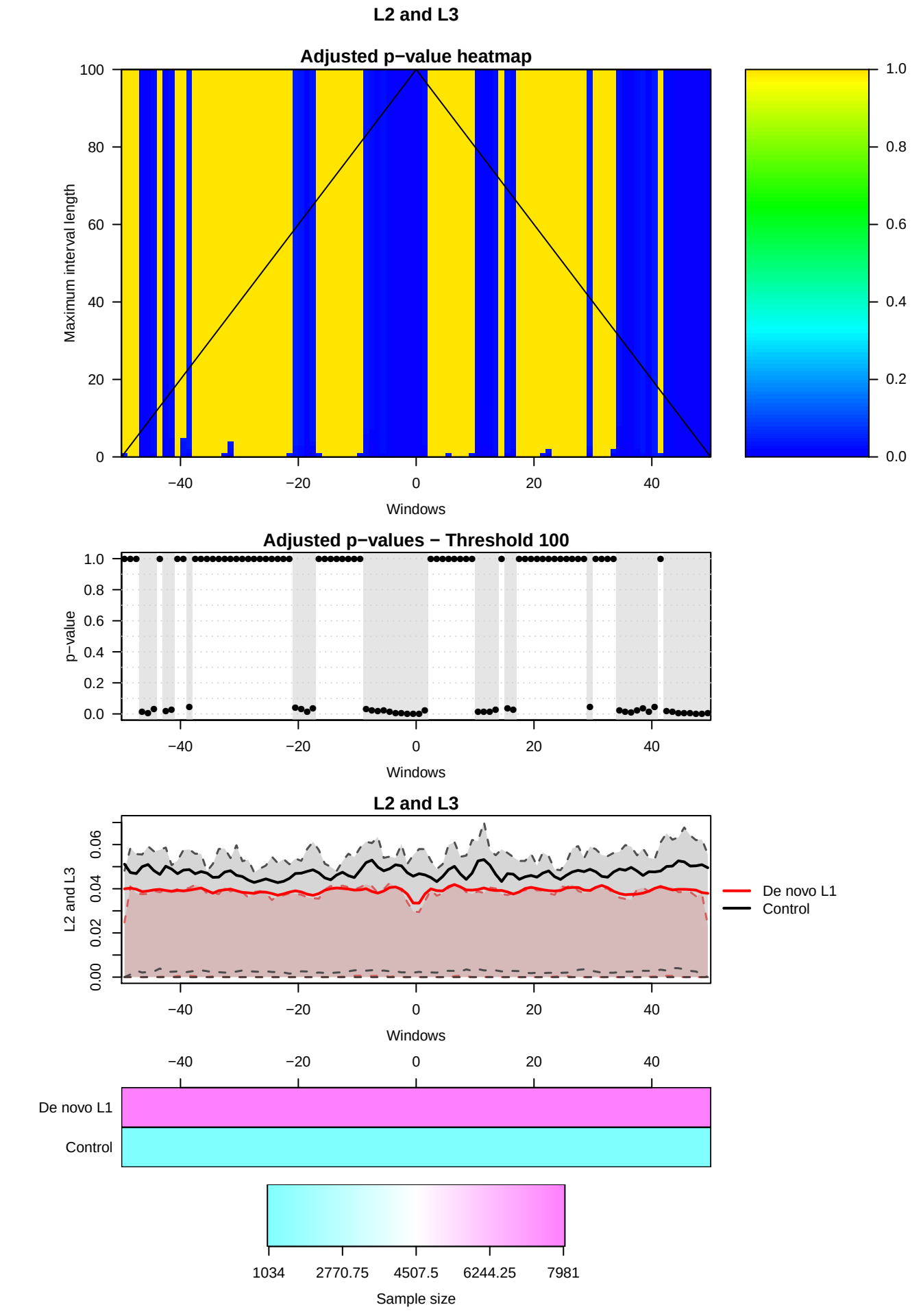

DNA transposons
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
DNA transposons
DNA transposons
0.00
0.02
0.04
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

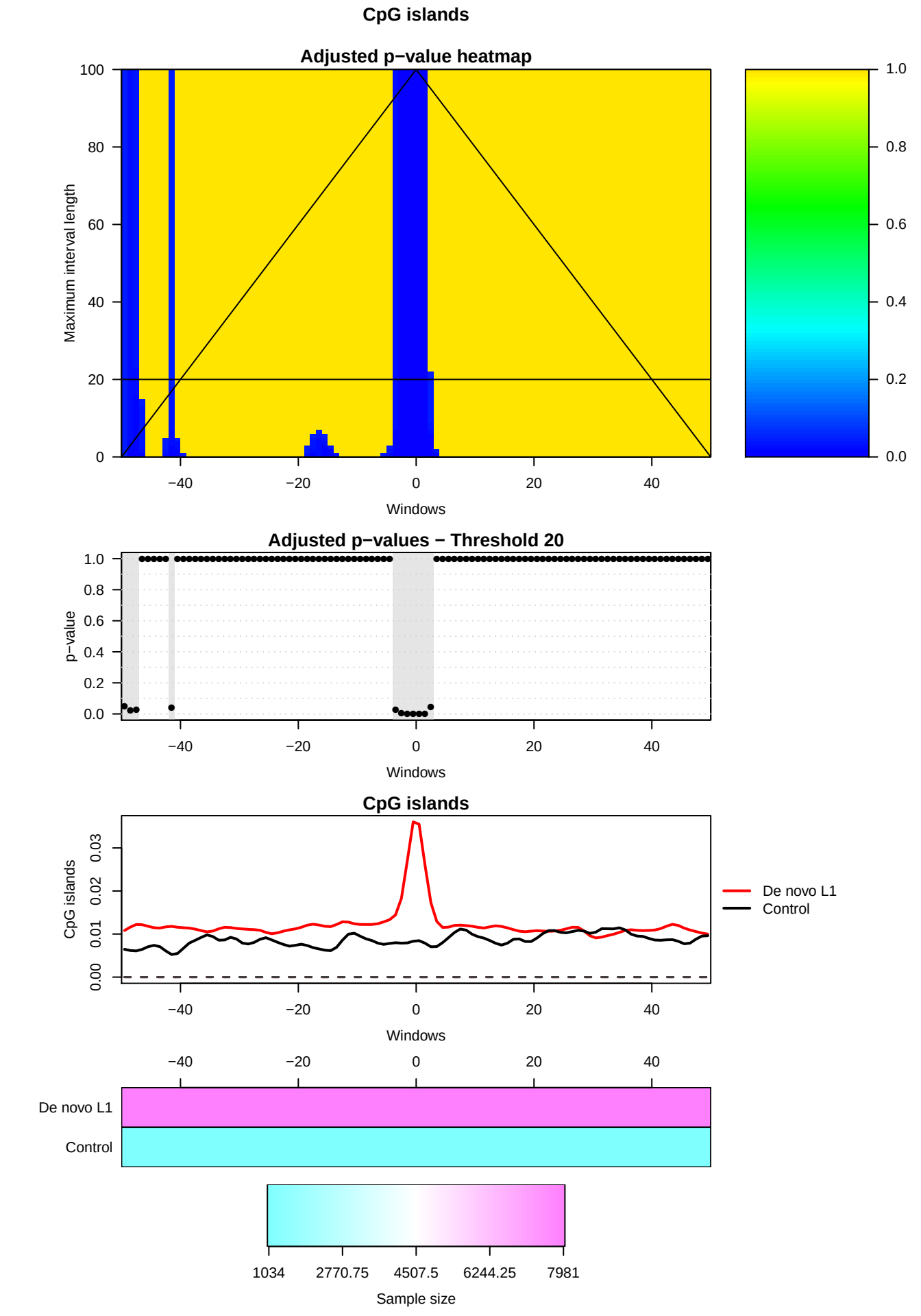

Alu
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 100
p−value
Windows
Alu
Alu
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

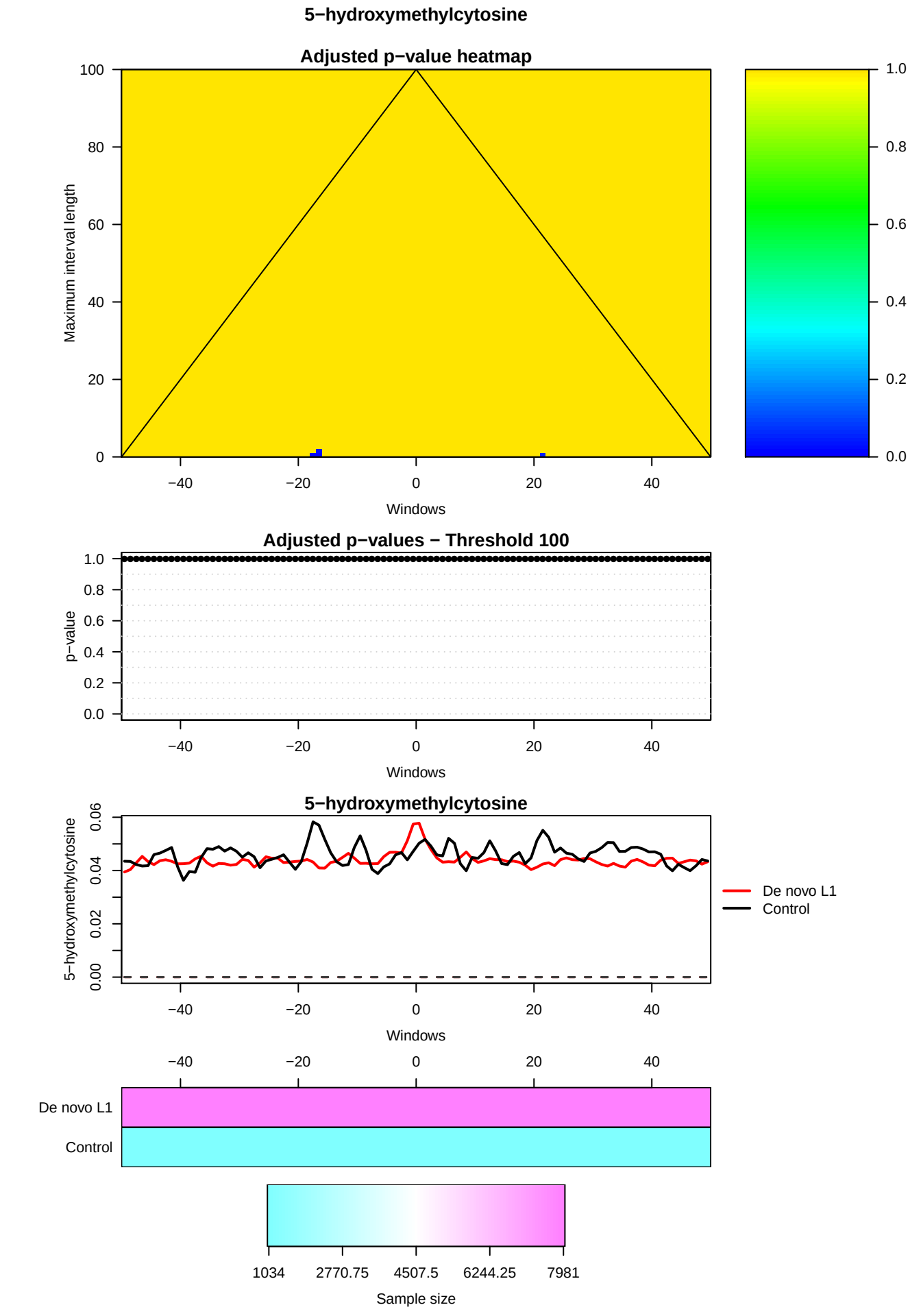

MIR
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
MIR
MIR
0.08
0.04
0.00
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

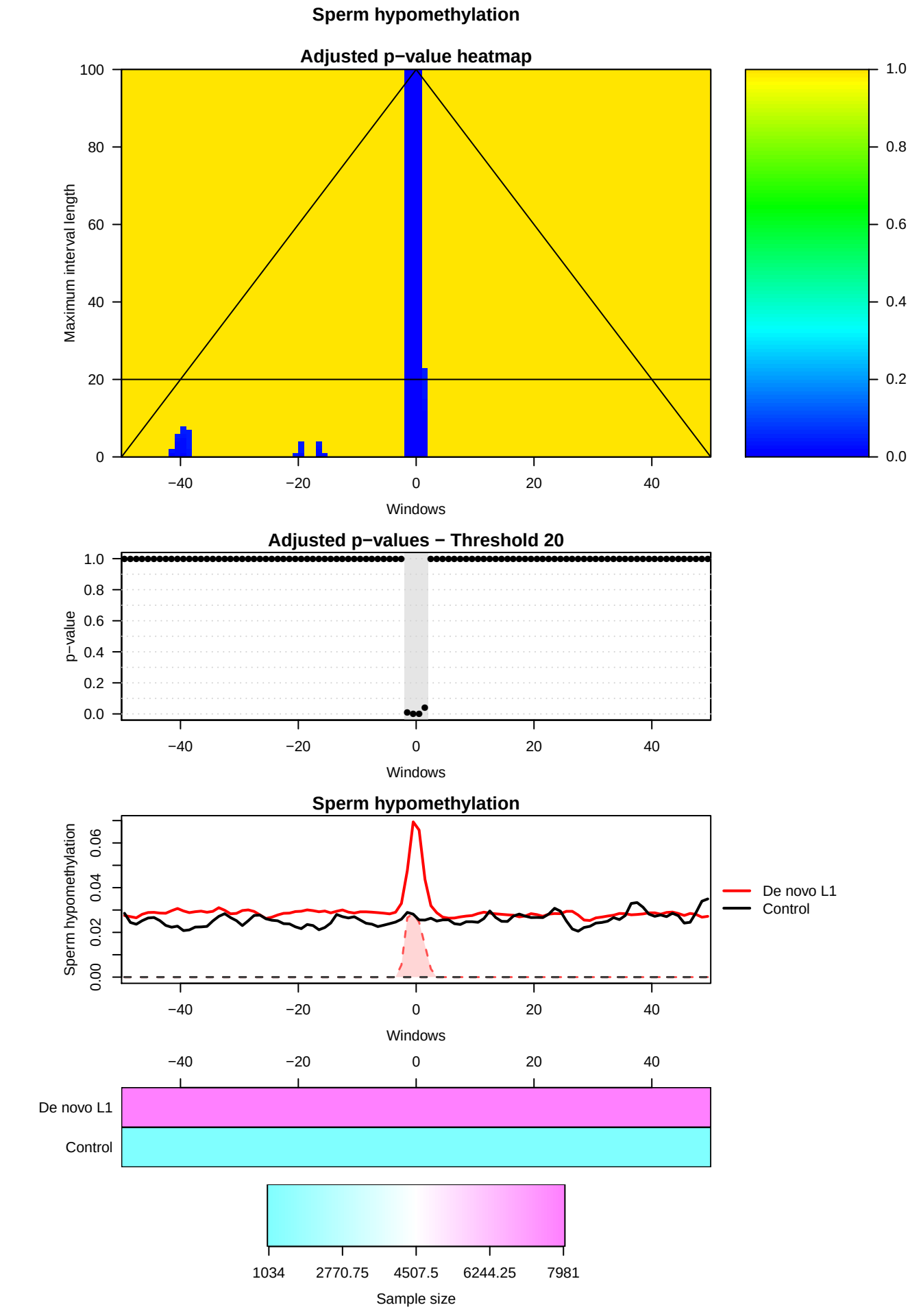

LTR elements
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 6
p−value
Windows
LTR elements
LTR elements
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

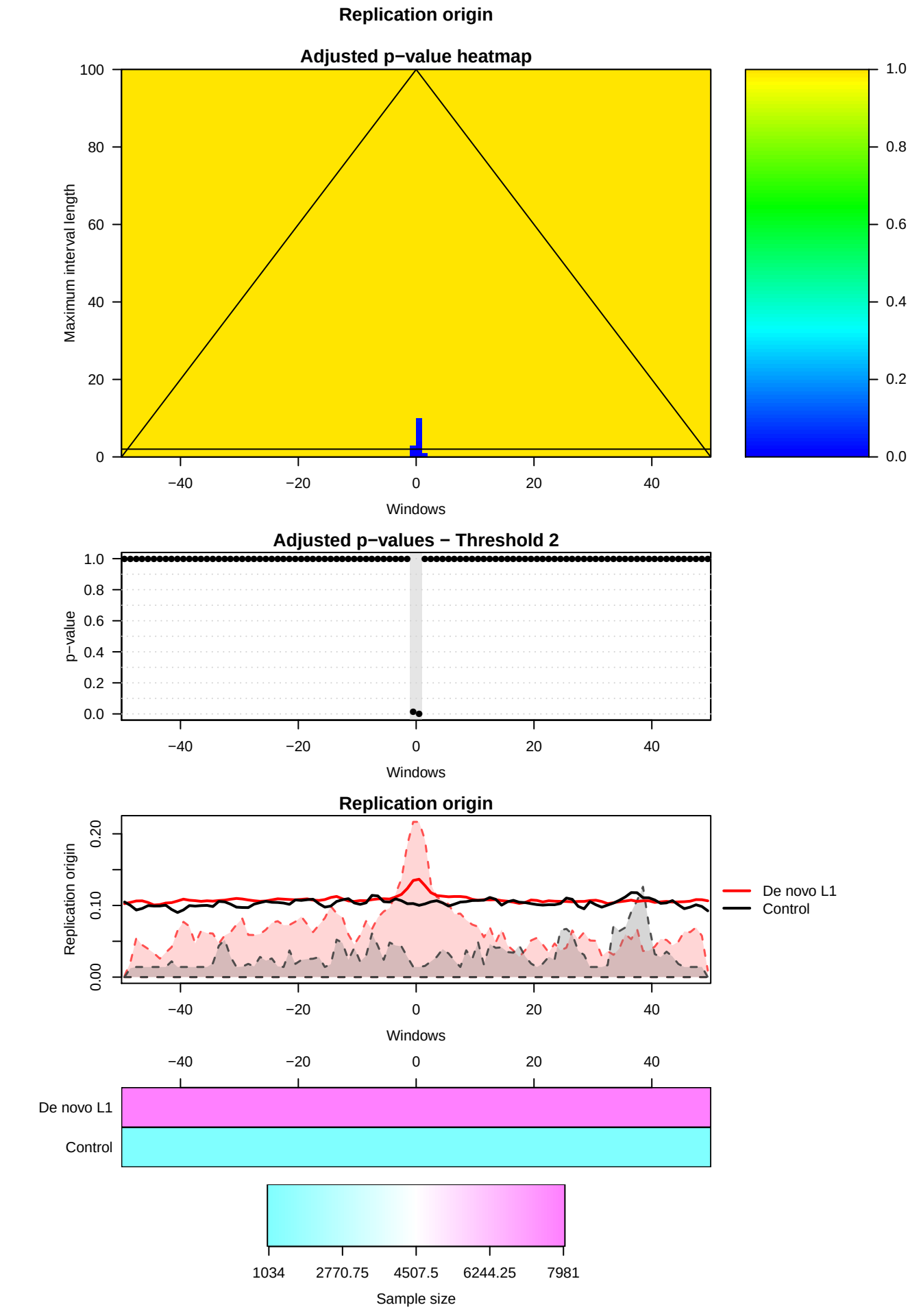

L1 target motifs
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
L1 target motifs
L1 target motifs
0
1
2
3
4
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

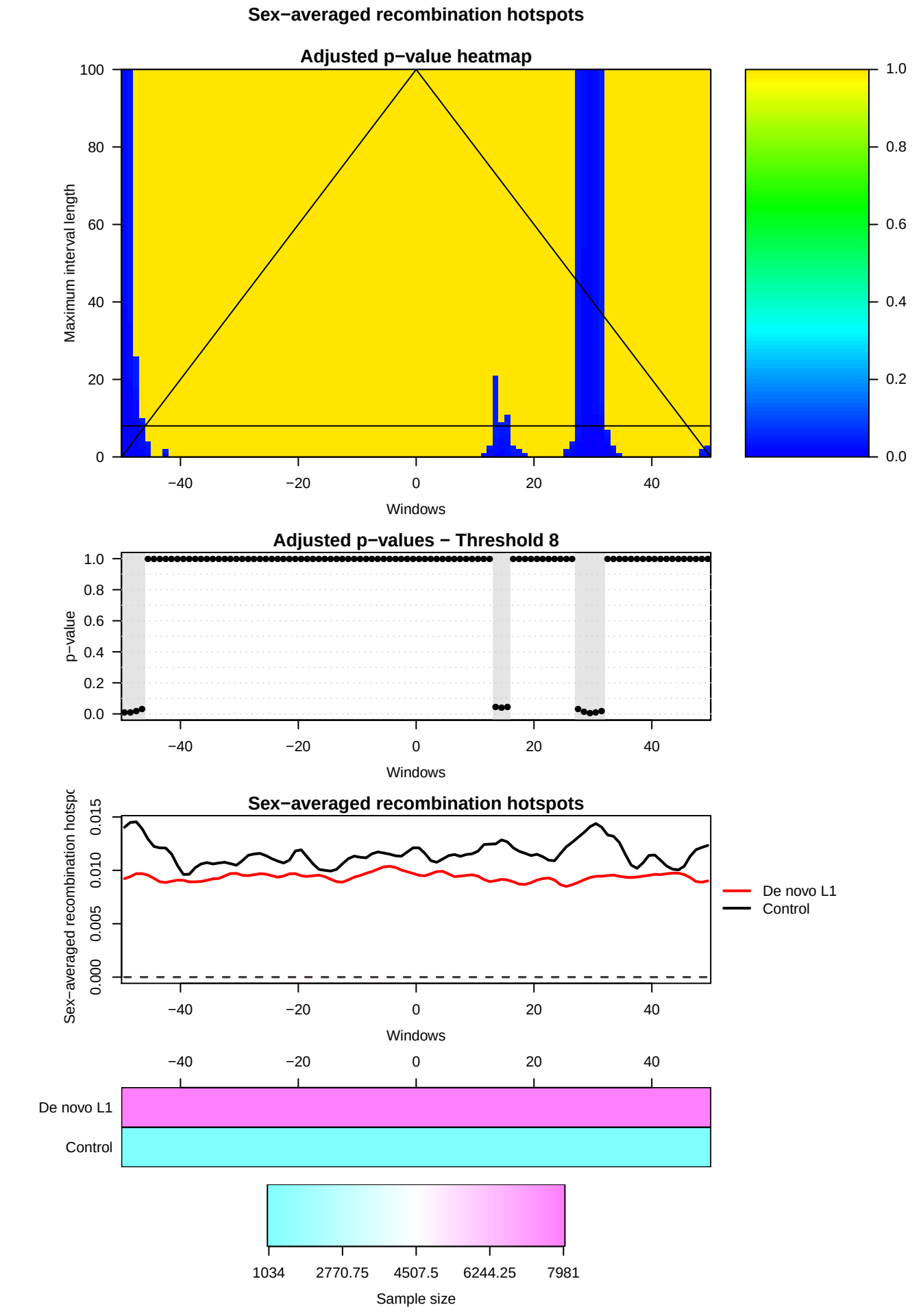

L2 and L3
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 100
p−value
Windows
L2 and L3
L2 and L3
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

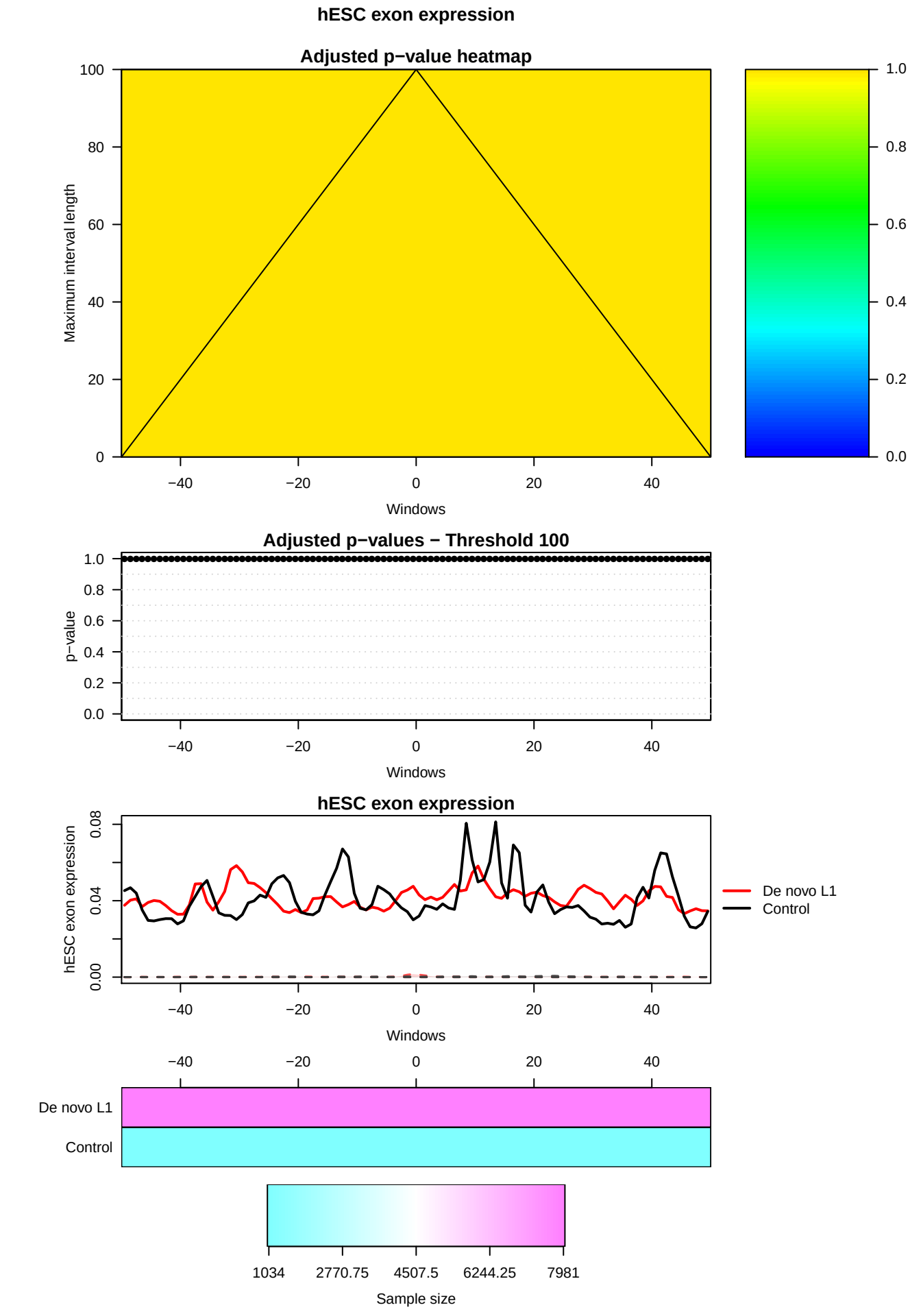

CpG islands
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 20
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
CpG islands
CpG islands
0.00
0.01
0.02
0.03
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

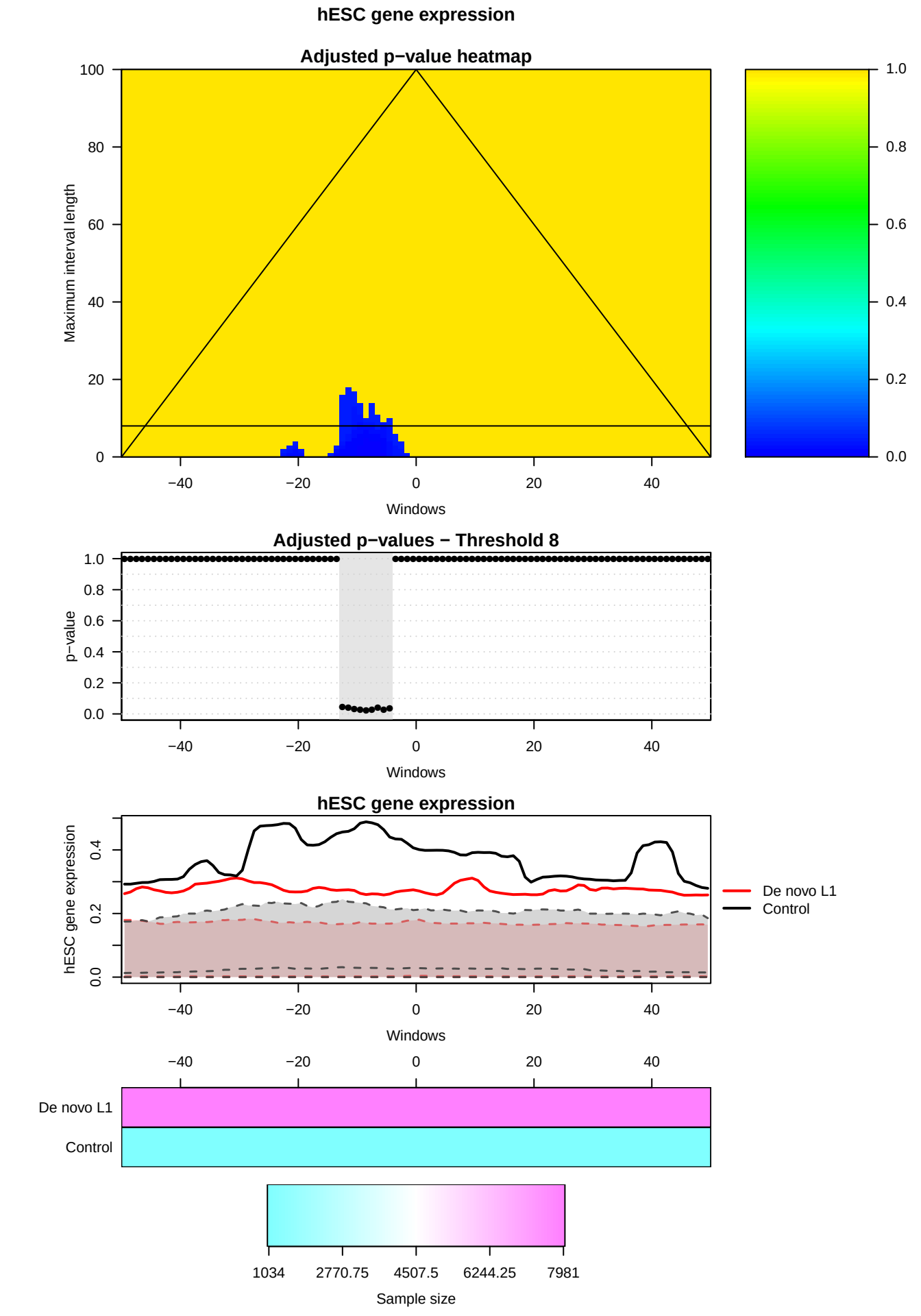

5−hydroxymethylcytosine
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
5−hydroxymethylcytosine
5−hydroxymethylcytosine
0.06
0.04
0.02
0.00
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

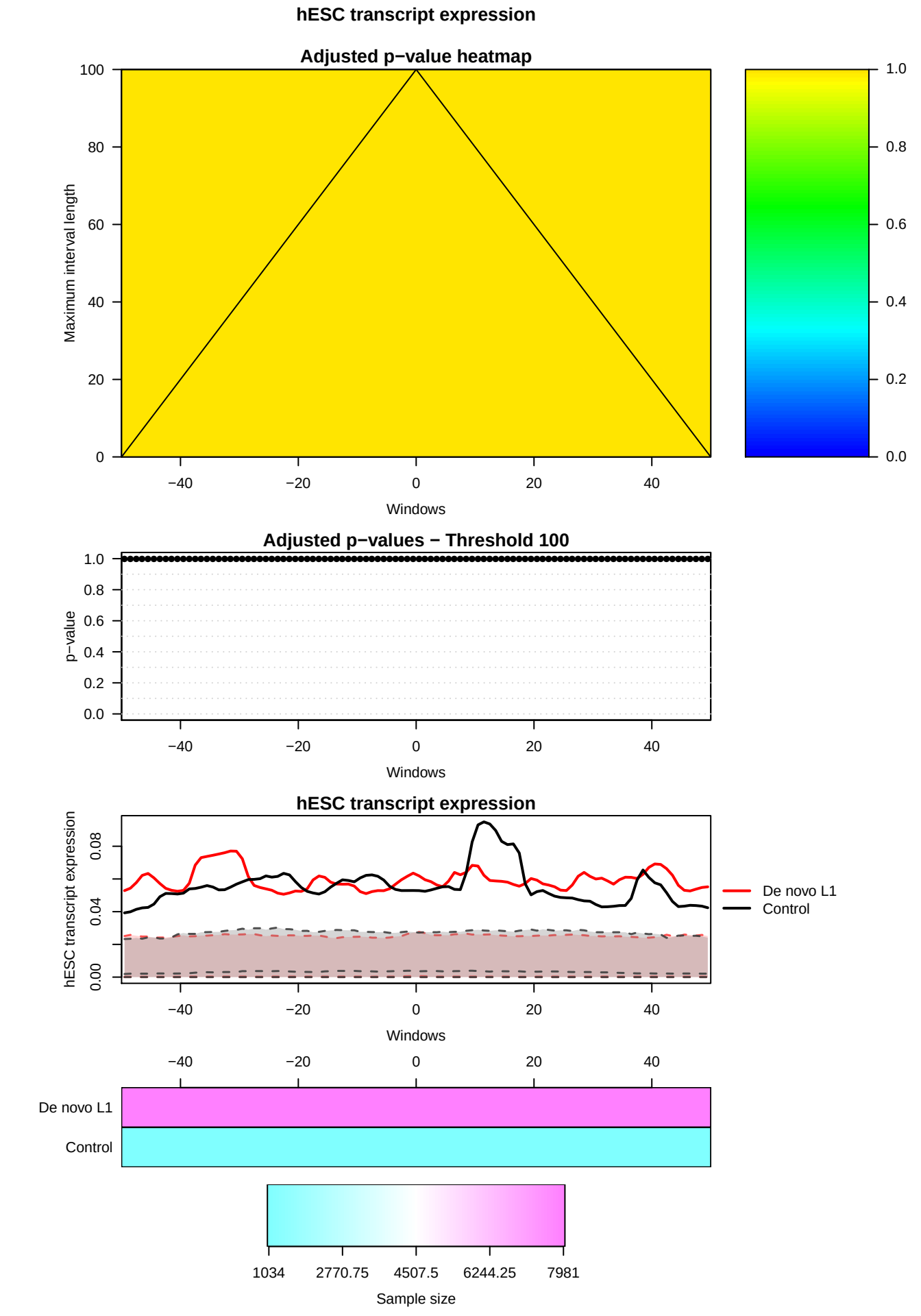

Sperm hypomethylation
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 20
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
Sperm hypomethylation
Sperm hypomethylation
0.00
0.02
0.04
0.06
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

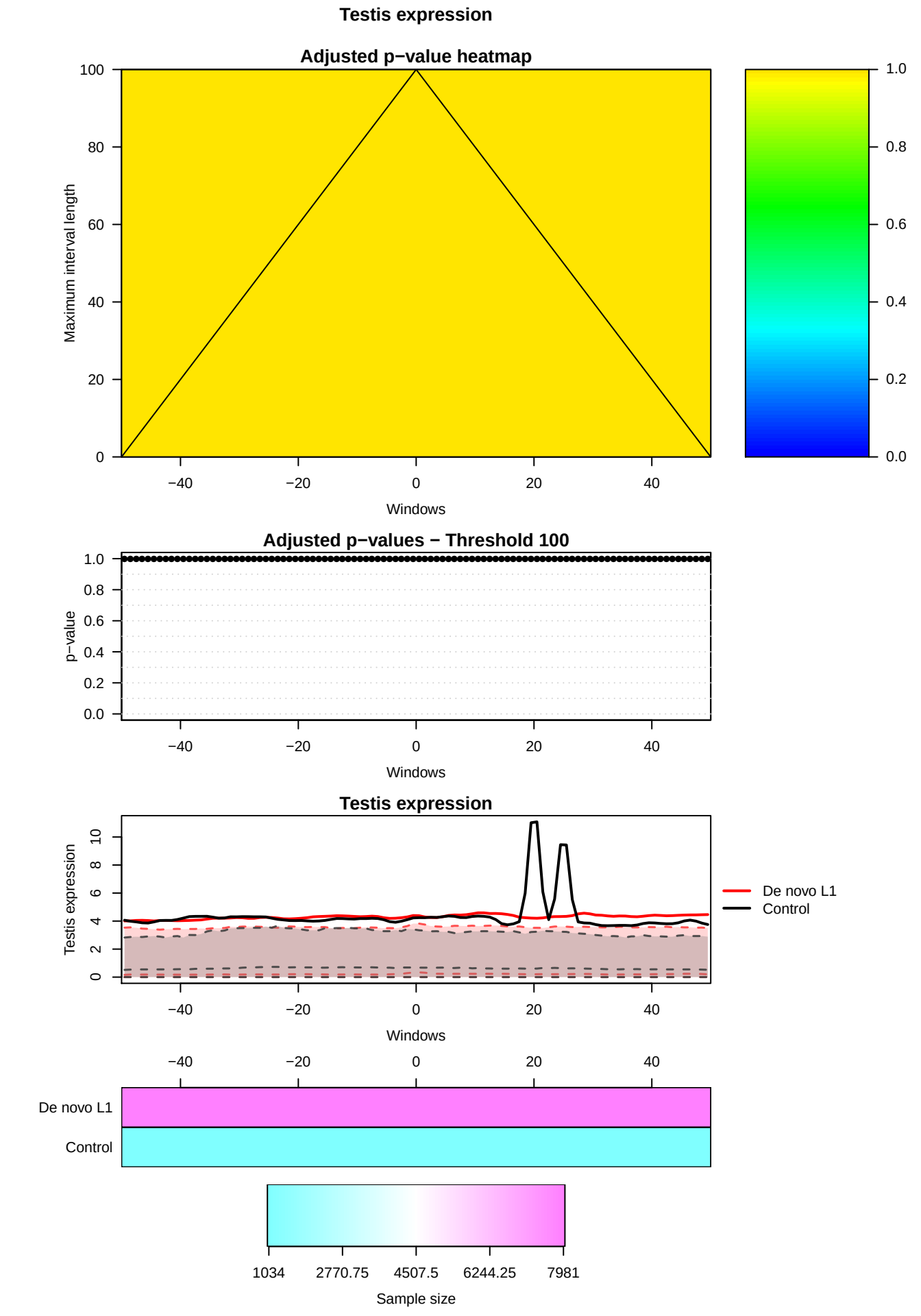

Replication origin
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 2
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
Replication origin
Replication origin
0.20
0.10
0.00
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

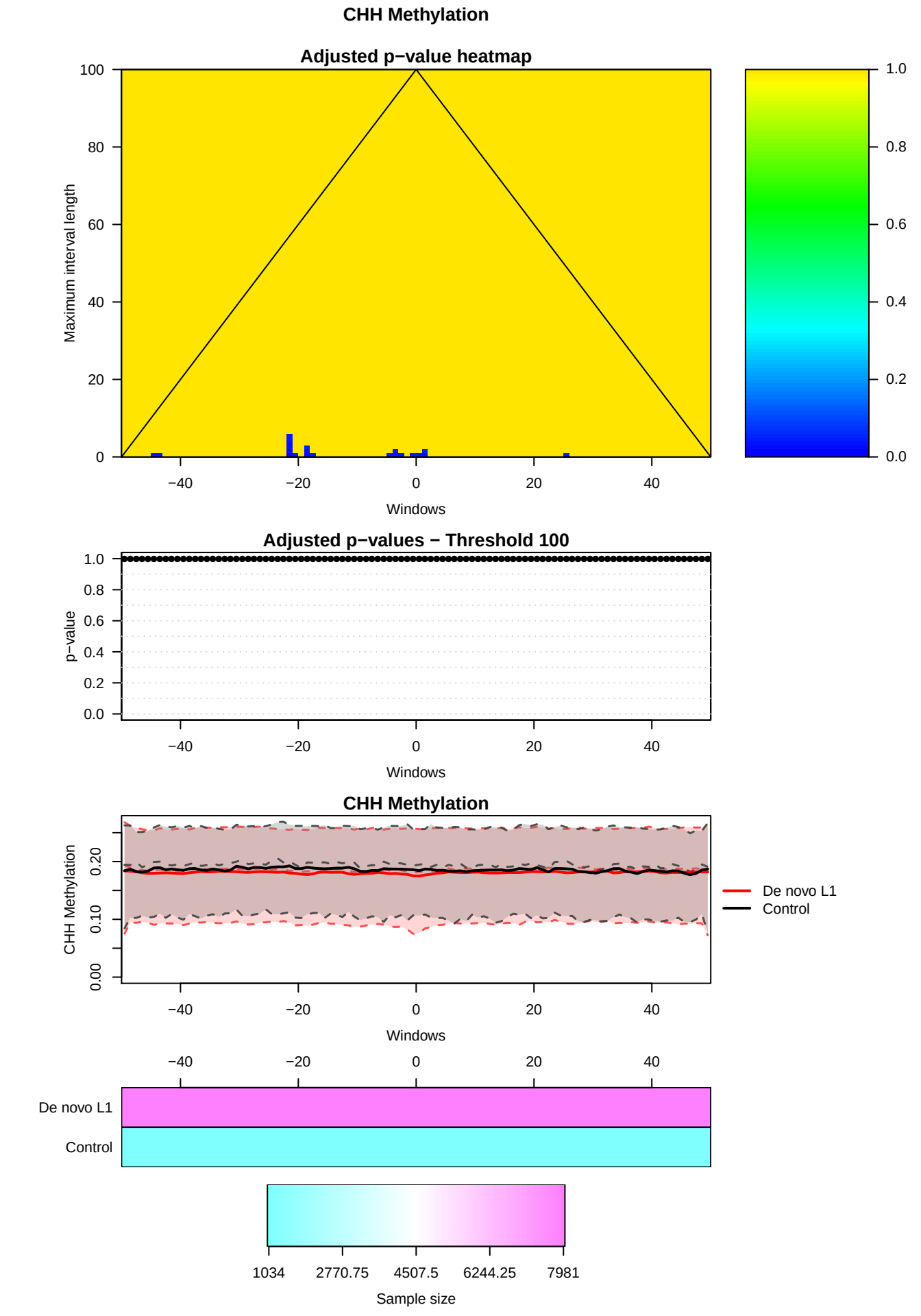

Sex−averaged recombination hotspots
Adjusted p−value heatmap
Maximum interval length
Windows
Adjusted p−values − Threshold 8
p−value
Windows
Sex−averaged recombination hotspots
Sex−averaged recombination hotspc
Windows
De novo L1
Control
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

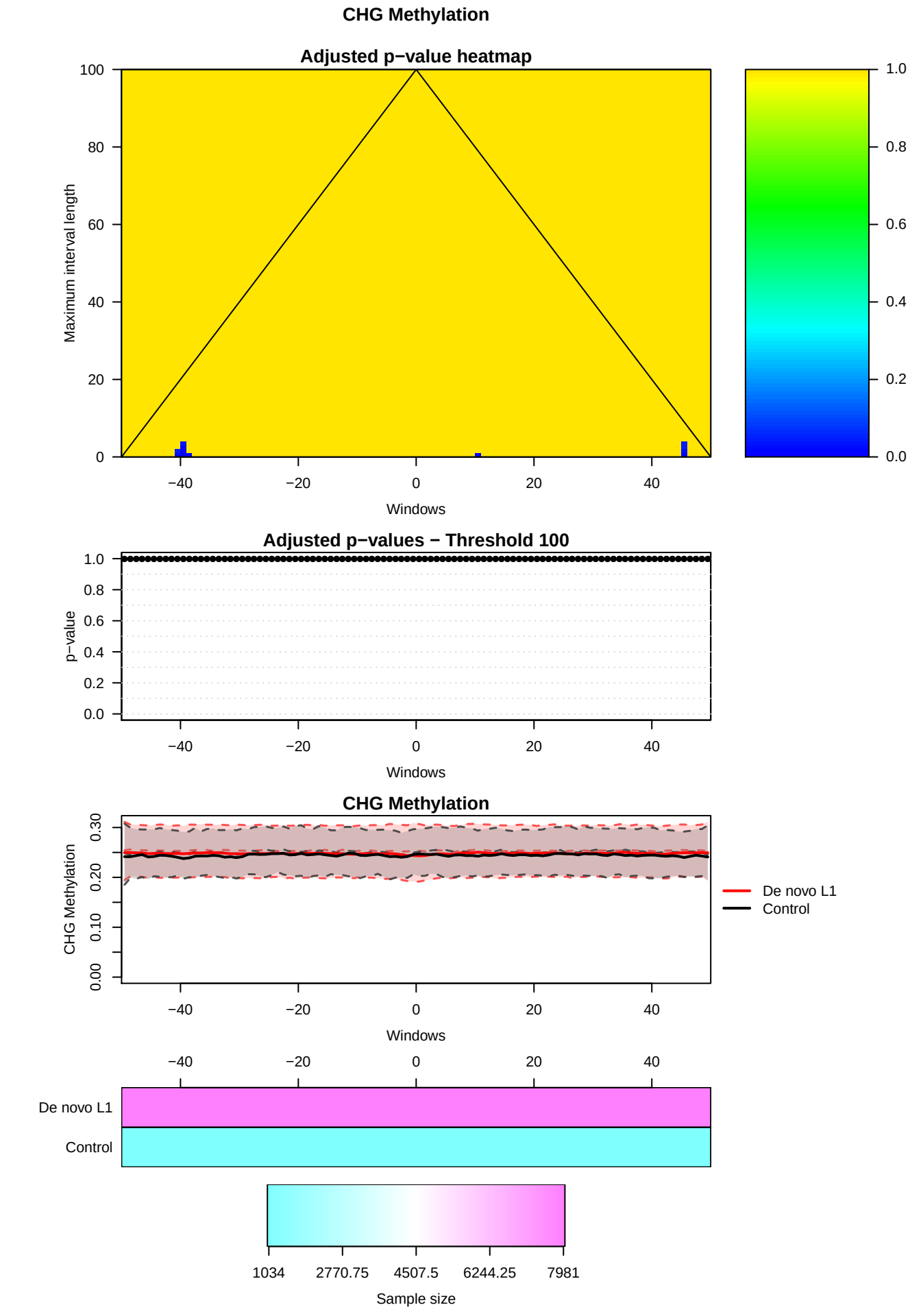

hESC exon expression
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
hESC exon expression
hESC exon expression
0.08
0.04
0.00
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size

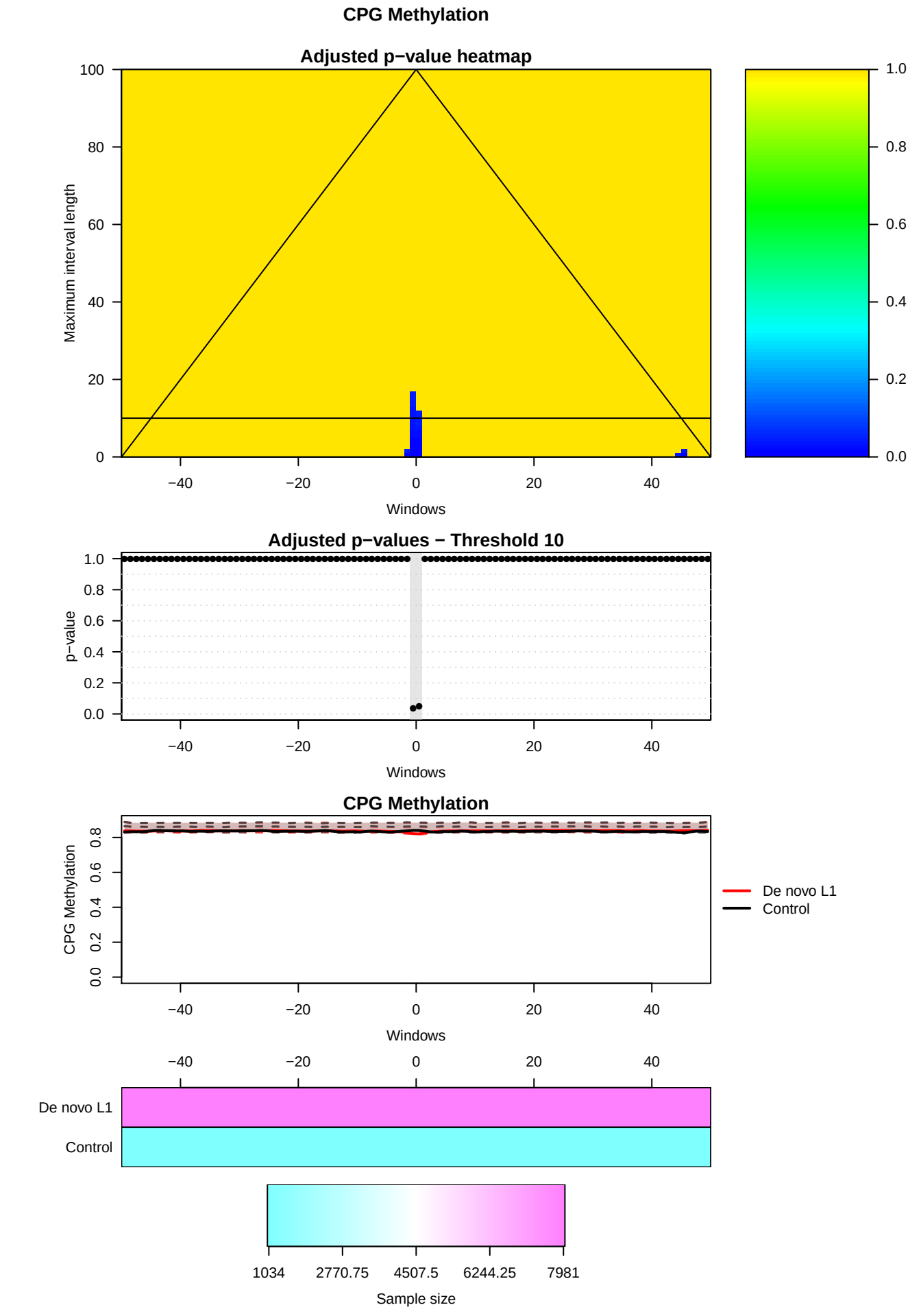

hESC gene expression
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 8
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
hESC gene expression
hESC gene expression
0.0
0.2
0.4
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size


hESC transcript expression
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
hESC transcript expression
hESC transcript expression
0.00
0.04
0.08
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size


Testis expression
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
Testis expression
Testis expression
0
2
4
6
8
10
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size


CHH Methylation
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
CHH Methylation
CHH Methylation
0.00
0.10
0.20
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size


CHG Methylation
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 100
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
CHG Methylation
CHG Methylation
0.00
0.10
0.20
0.30
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size


CPG Methylation
Adjusted p−value heatmap
Maximum interval length
100
80
60
40
20
0
−40
−20
0
20
40
Windows
1.0
0.8
0.6
0.4
0.2
0.0
Adjusted p−values − Threshold 10
p−value
1.0
0.8
0.6
0.4
0.2
0.0
−40
−20
0
20
40
Windows
CPG Methylation
CPG Methylation
0.0
0.2
0.4
0.6
0.8
−40
−20
0
20
40
Windows
De novo L1
Control
−40
−20
0
20
40
De novo L1
Control
1034
2770.75
4507.5
6244.25
7981
Sample size