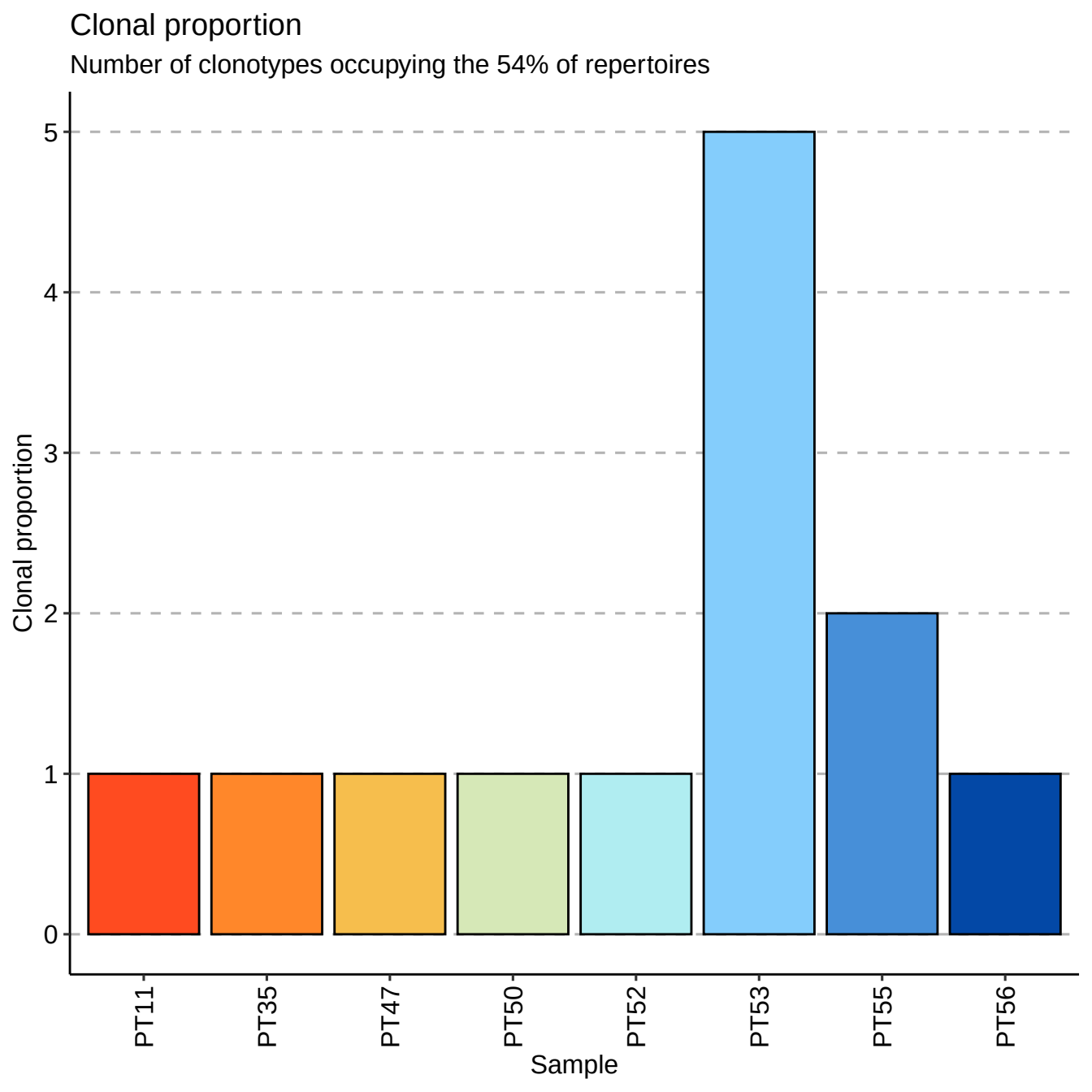
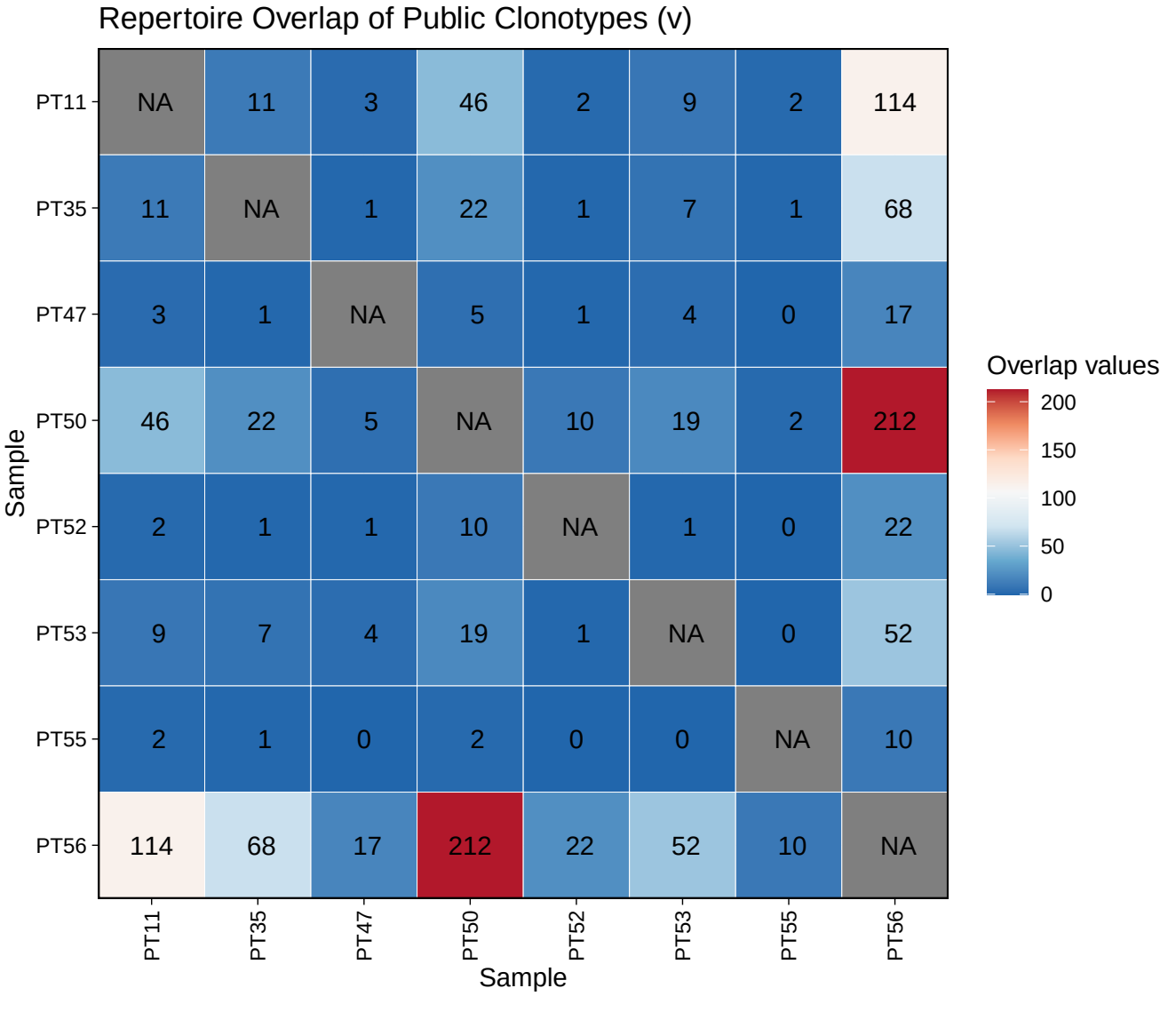
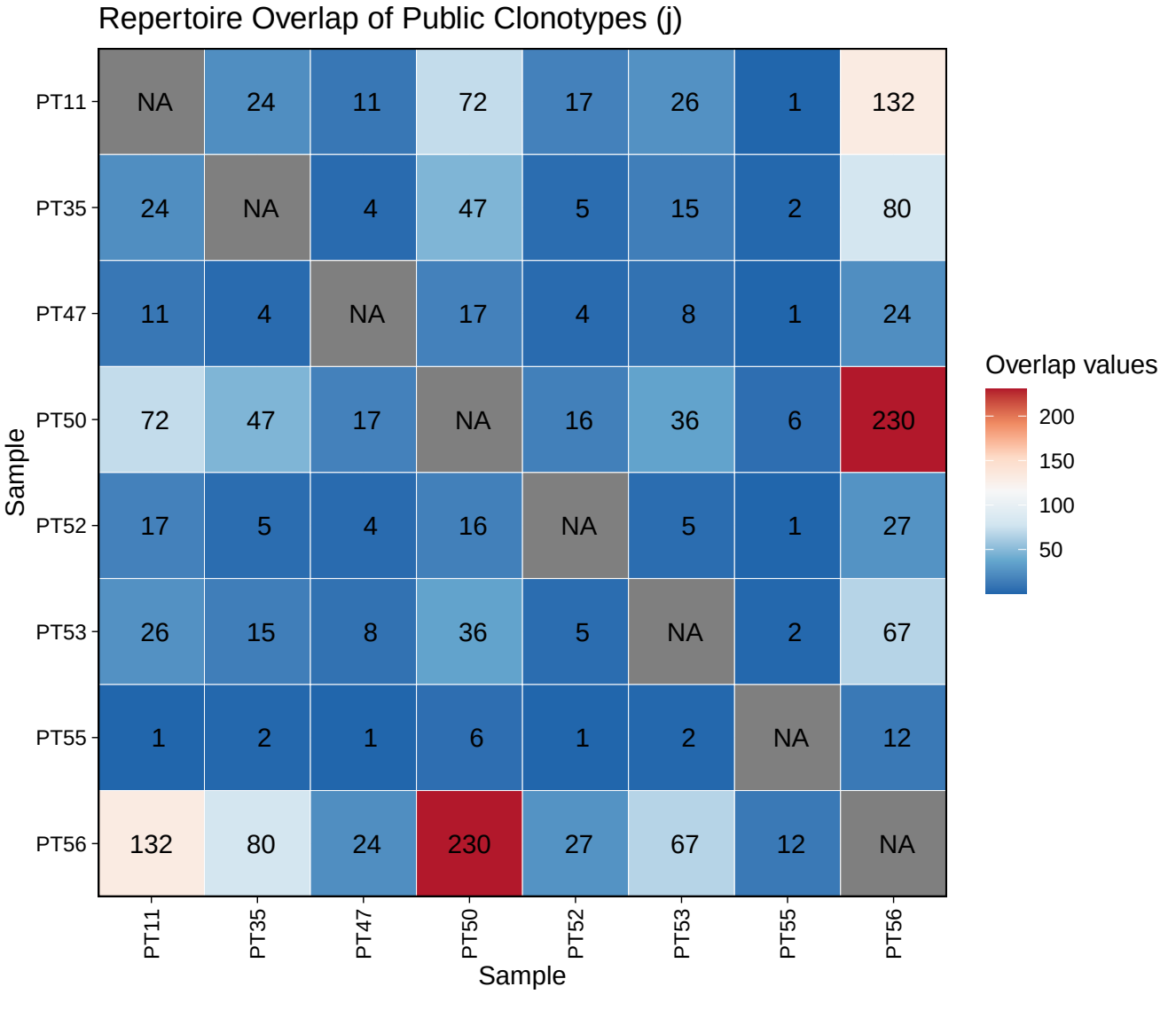
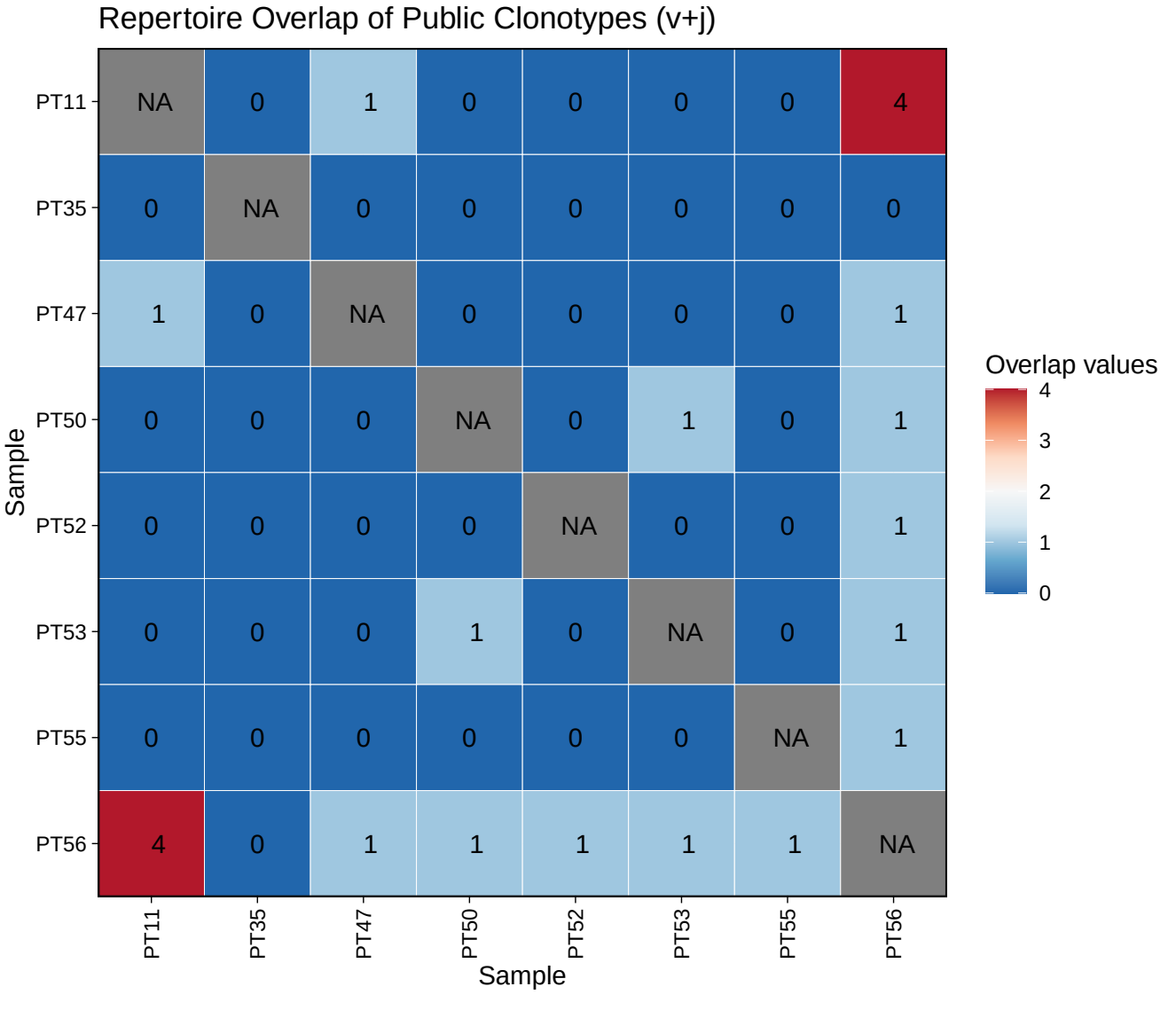
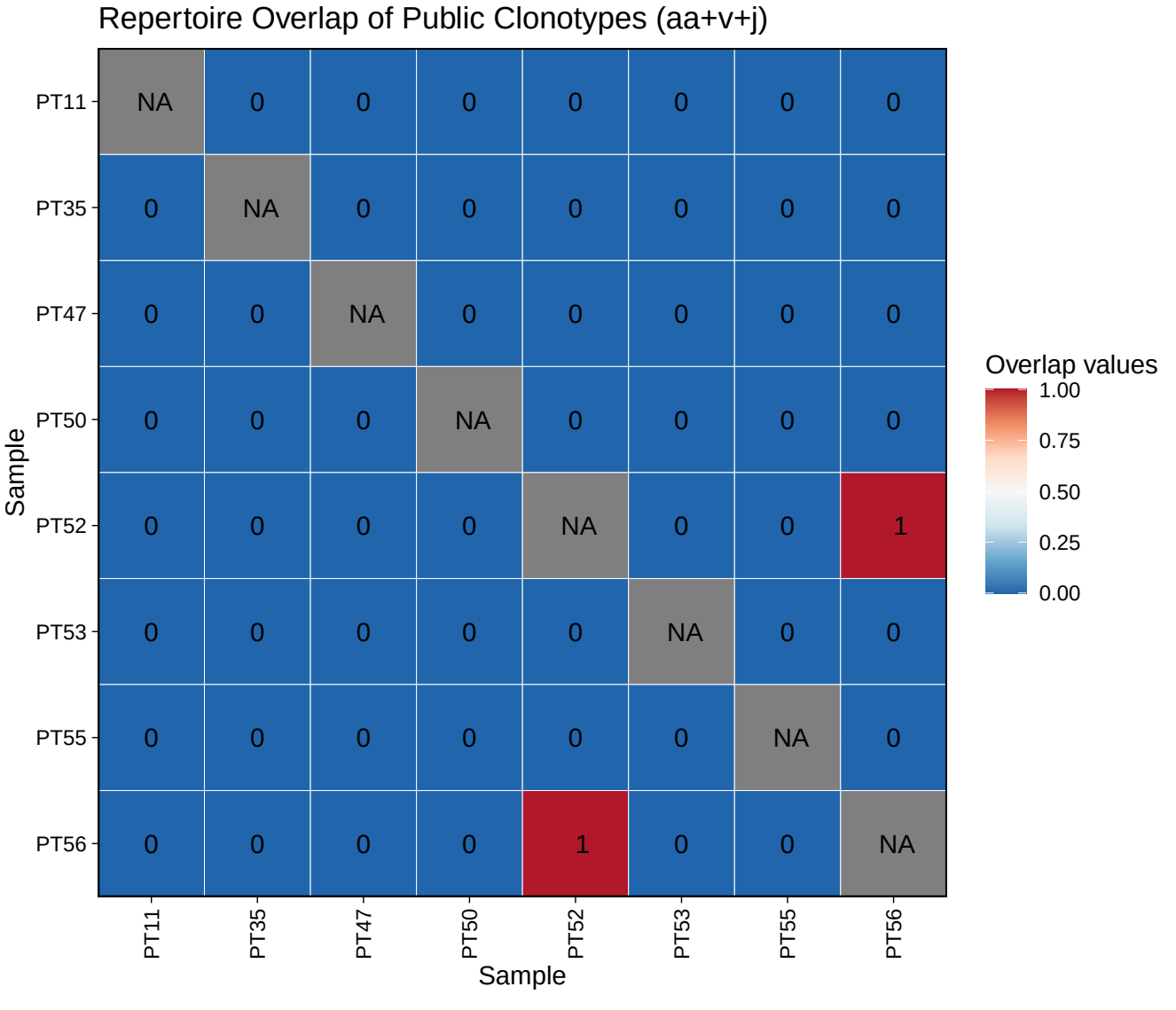
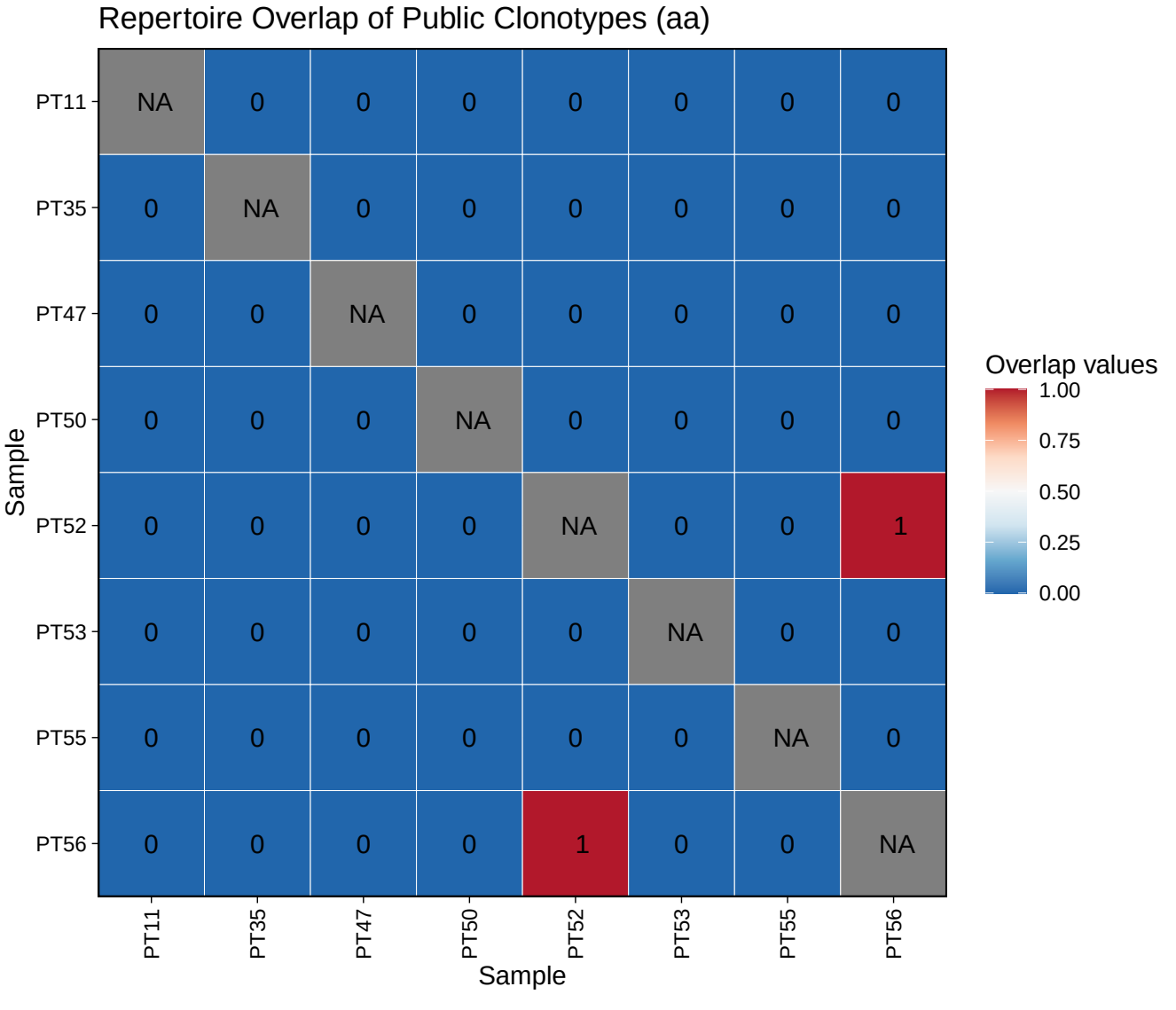

Clonal proportion
Number of clonotypes occupying the 54% of repertoires
Clonal proportion
5
4
3
2
1
0
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56
Sample

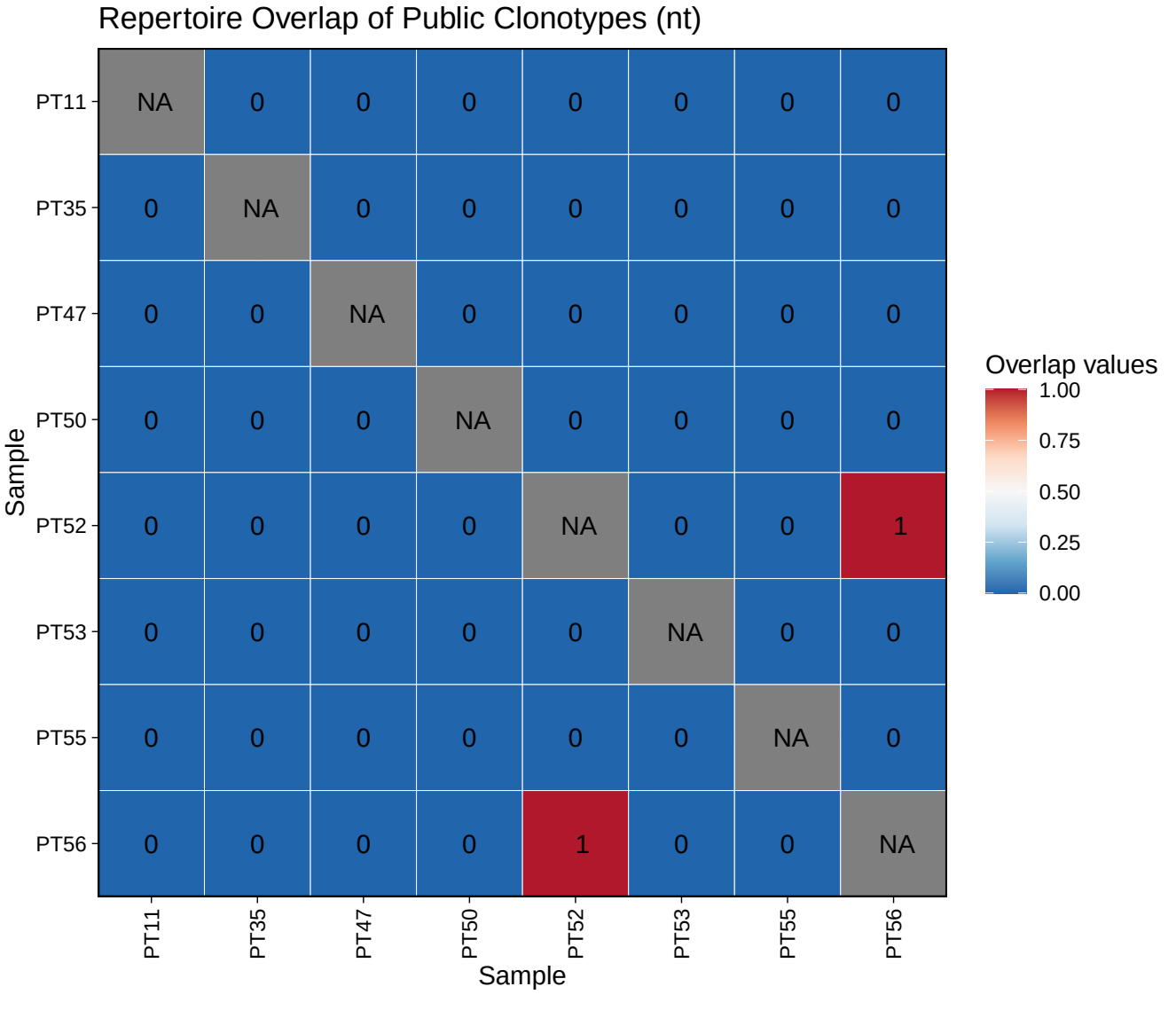

Repertoire Overlap of Public Clonotypes (v)
PT11 NA 11 3 46 2 9 2 114
PT35 11 NA 1 22 1 7 1 68
PT47 3 1 NA 5 1 4 0 17
PT50 46 22 5 NA 10 19 2 212
PT52 2 1 1 10 NA 1 0 22
PT53 9 7 4 19 1 NA 0 52
PT55 2 1 0 2 0 0 NA 10
PT56 114 68 17 212 22 52 10 NA
Sample
PT11 PT35 PT47 PT50 PT52 PT53 PT55 PT56
Sample
Overlap values
200
150
100
50
0

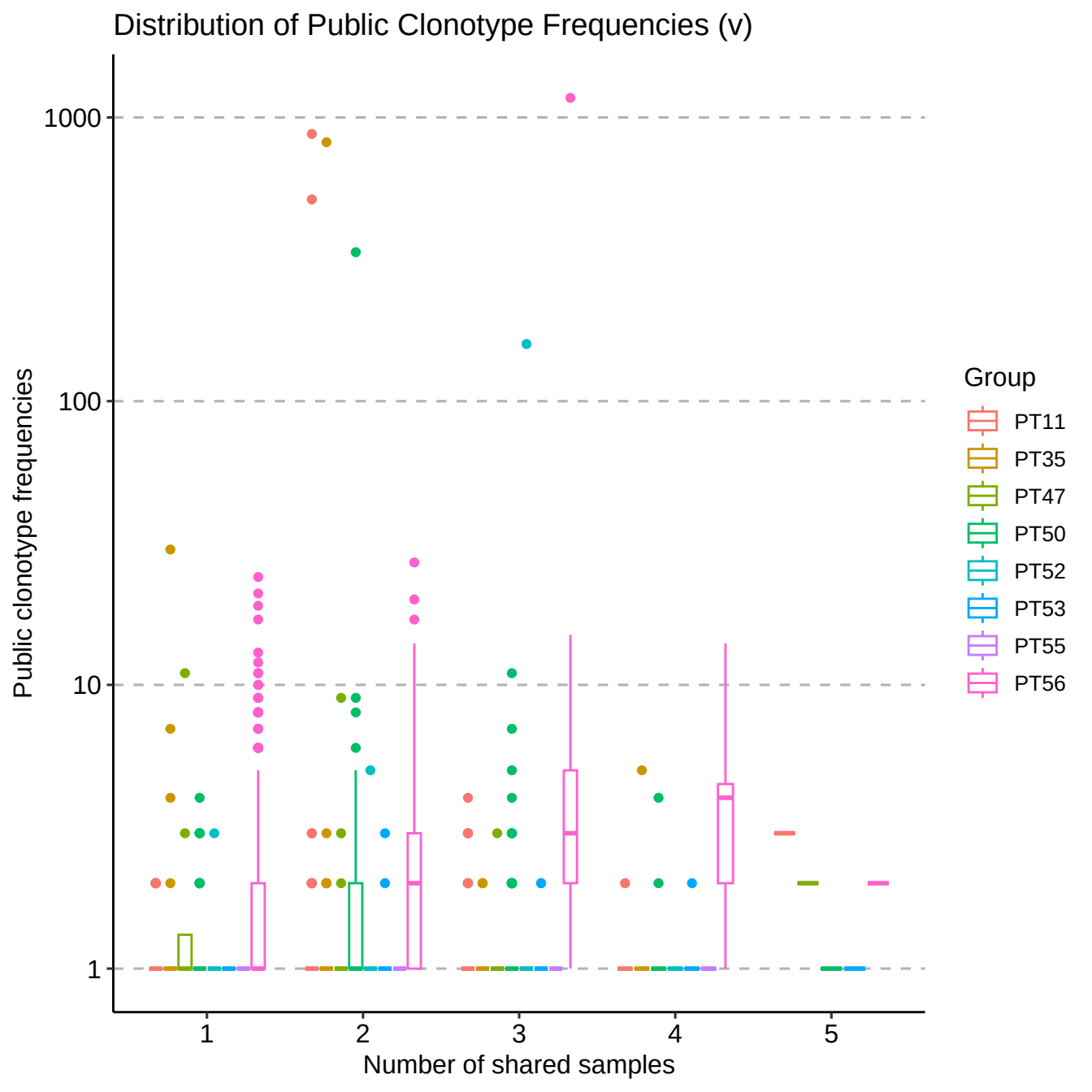

Repertoire Overlap of Public Clonotypes (j)
PT11 NA 24 11 72 17 26 1 132
PT35 24 NA 4 47 5 15 2 80
PT47 11 4 NA 17 4 8 1 24
PT50 72 47 17 NA 16 36 6 230
PT52 17 5 4 16 NA 5 1 27
PT53 26 15 8 36 5 NA 2 67
PT55 1 2 1 6 1 2 NA 12
PT56 132 80 24 230 27 67 12 NA
Sample
PT11 PT35 PT47 PT50 PT52 PT53 PT55 PT56
Sample
Overlap values
200
150
100
50

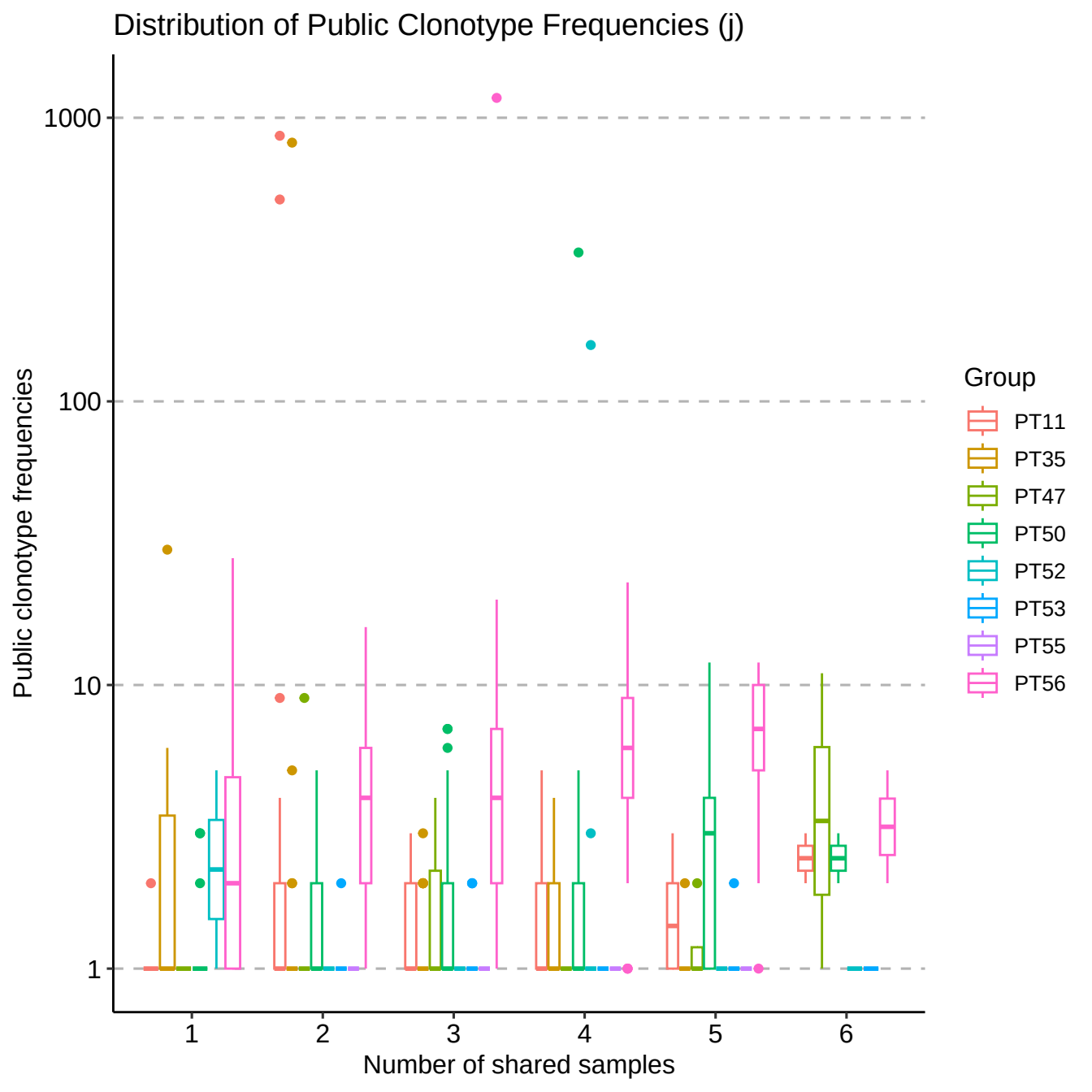

Repertoire Overlap of Public Clonotypes (v+j)
PT11 NA 0 1 0 0 0 0 4
PT35 0 NA 0 0 0 0 0 0
PT47 1 0 NA 0 0 0 0 1
PT50 0 0 0 NA 0 1 0 1
PT52 0 0 0 0 NA 0 0 1
PT53 0 0 0 1 0 NA 0 1
PT55 0 0 0 0 0 0 NA 1
PT56 4 0 1 1 1 1 1 NA
Sample
PT11 PT35 PT47 PT50 PT52 PT53 PT55 PT56
Sample
Overlap values
4
3
2
1
0

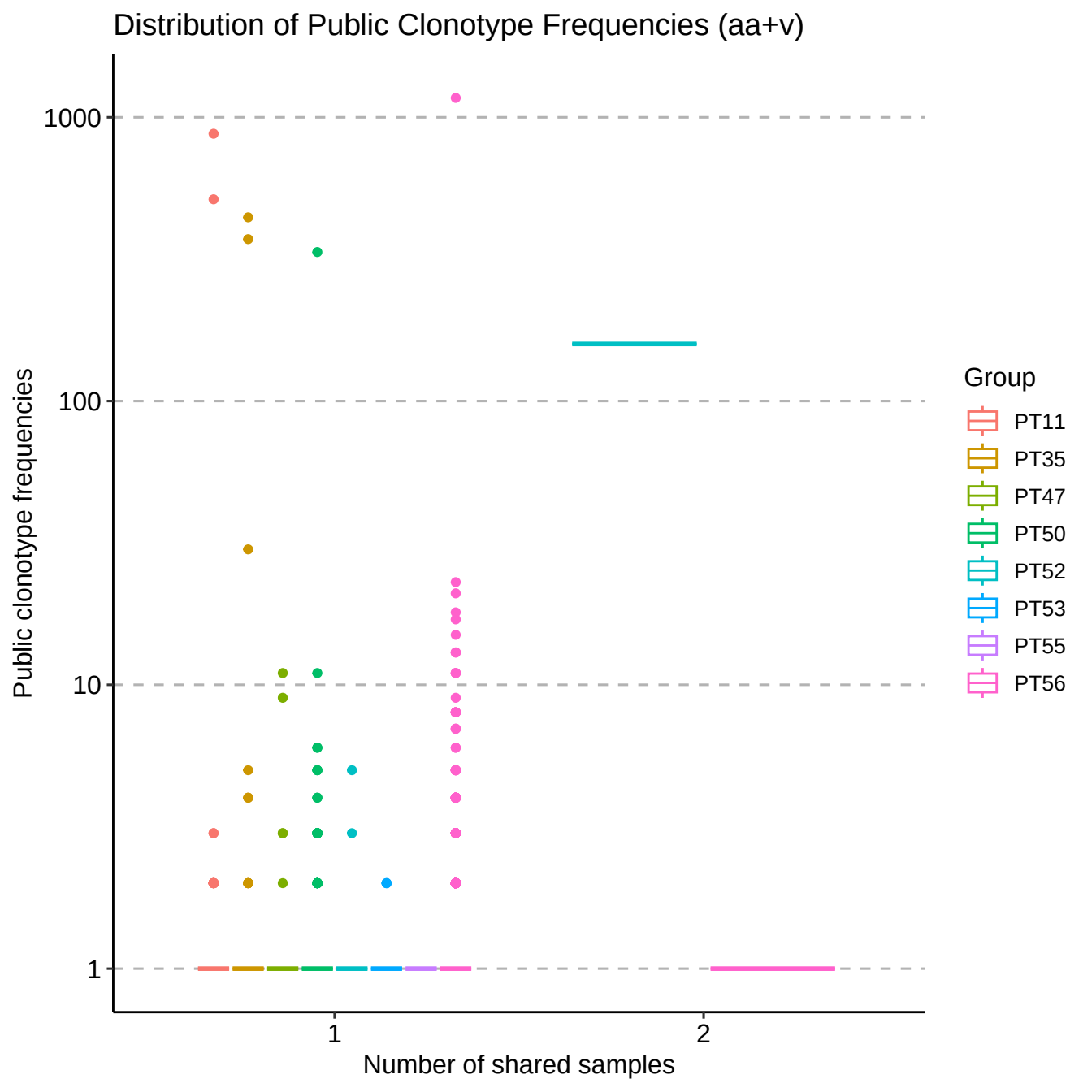

Repertoire Overlap of Public Clonotypes (aa+v+j)
PT11 NA 0 0 0 0 0 0 0
PT35 0 NA 0 0 0 0 0 0
PT47 0 0 NA 0 0 0 0 0
PT50 0 0 0 NA 0 0 0 0
PT52 0 0 0 0 NA 0 0 1
PT53 0 0 0 0 0 NA 0 0
PT55 0 0 0 0 0 0 NA 0
PT56 0 0 0 0 1 0 0 NA
Sample
PT11 PT35 PT47 PT50 PT52 PT53 PT55 PT56
Sample
Overlap values
1.00
0.75
0.50
0.25
0.00

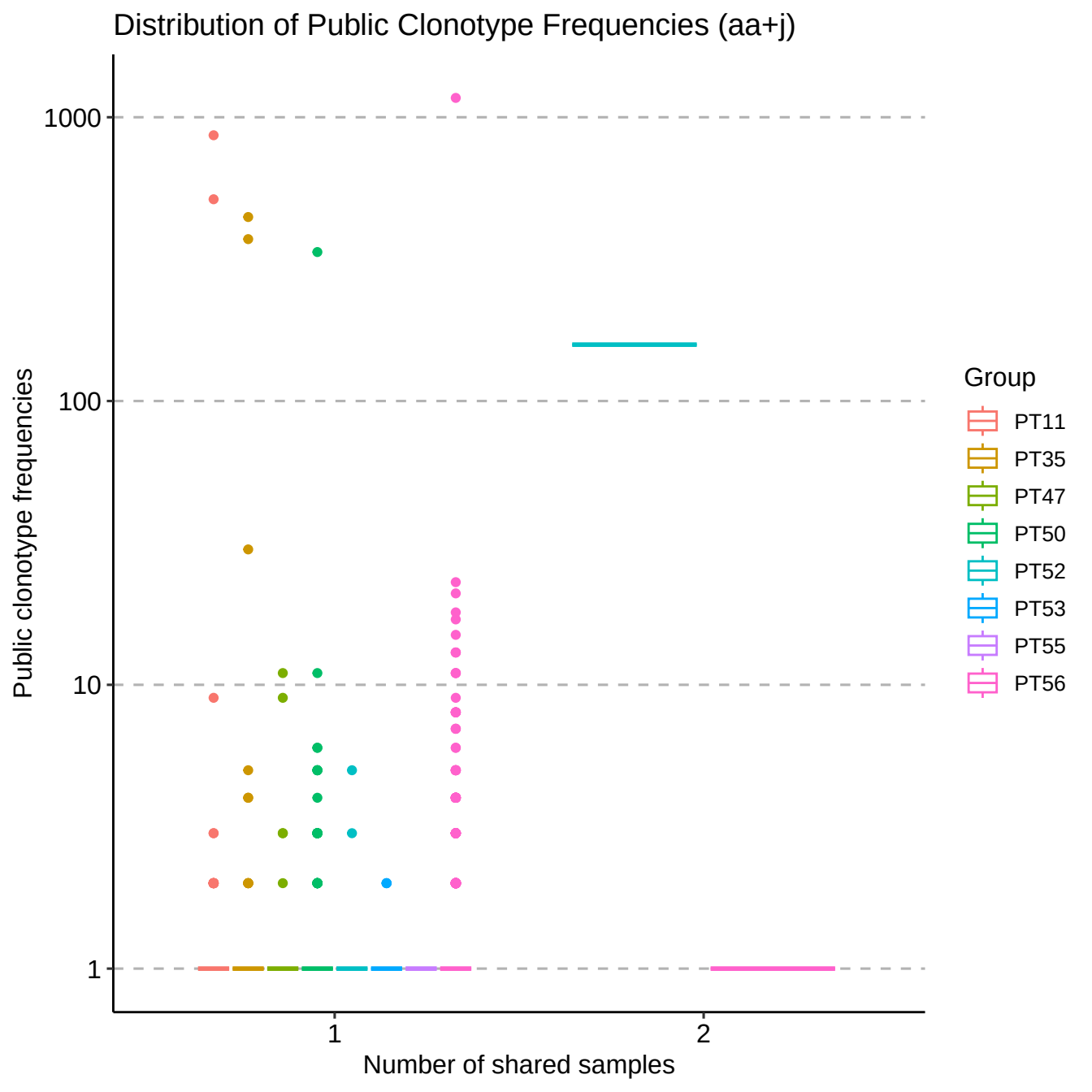

Repertoire Overlap of Public Clonotypes (aa)
Sample
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56
NA 0 0 0 0 0 0 0
0 NA 0 0 0 0 0 0
0 0 NA 0 0 0 0 0
0 0 0 NA 0 0 0 0
0 0 0 0 NA 0 0 1
0 0 0 0 0 NA 0 0
0 0 0 0 0 0 NA 0
0 0 0 0 1 0 0 NA
Sample
Overlap values
1.00
0.75
0.50
0.25
0.00

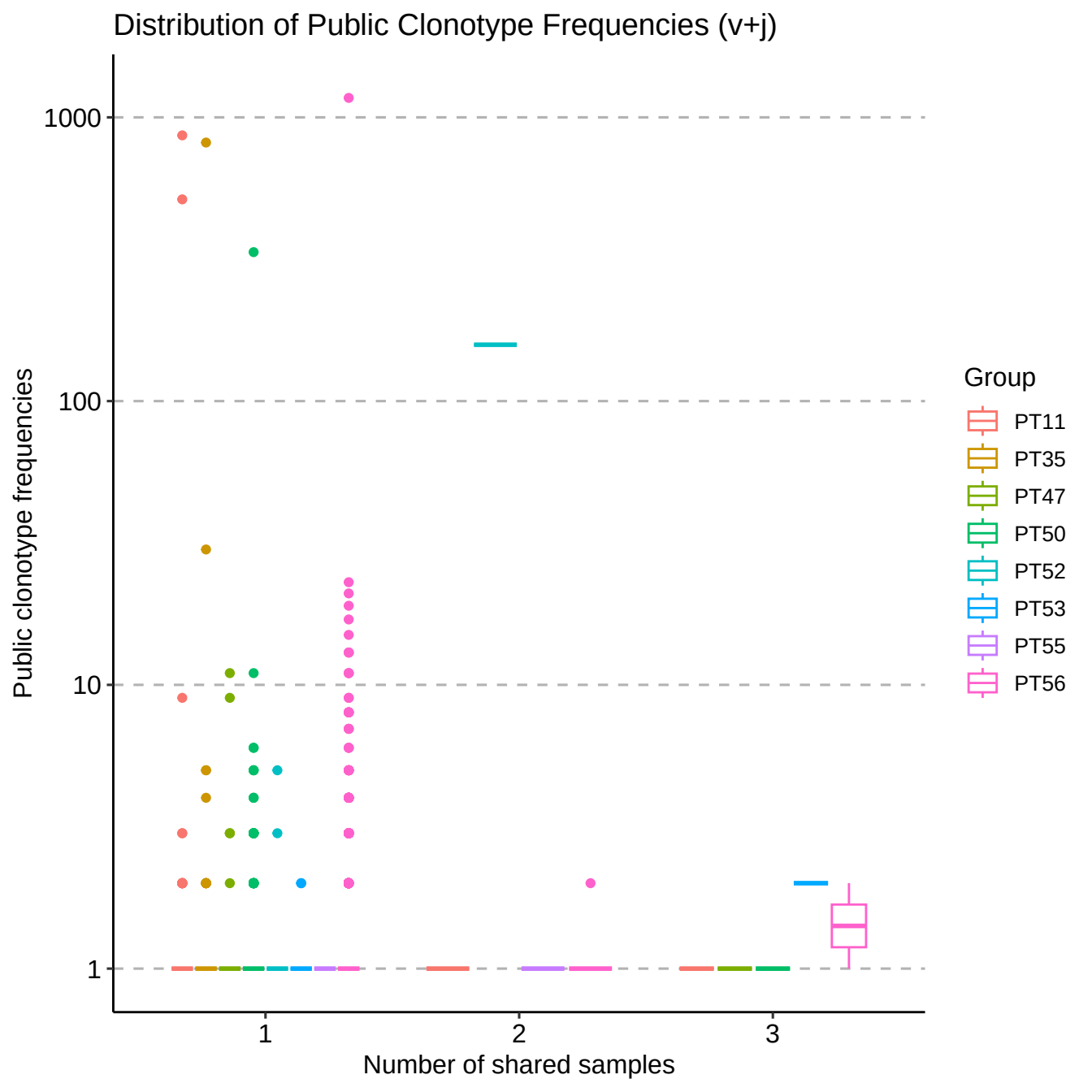

Repertoire Overlap of Public Clonotypes (nt)
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56
Sample
NA 0 0 0 0 0 0 0
0 NA 0 0 0 0 0 0
0 0 NA 0 0 0 0 0
0 0 0 NA 0 0 0 0
0 0 0 0 NA 0 0 1
0 0 0 0 0 NA 0 0
0 0 0 0 0 0 NA 0
0 0 0 0 1 0 0 NA
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56
Sample
Overlap values
1.00
0.75
0.50
0.25
0.00

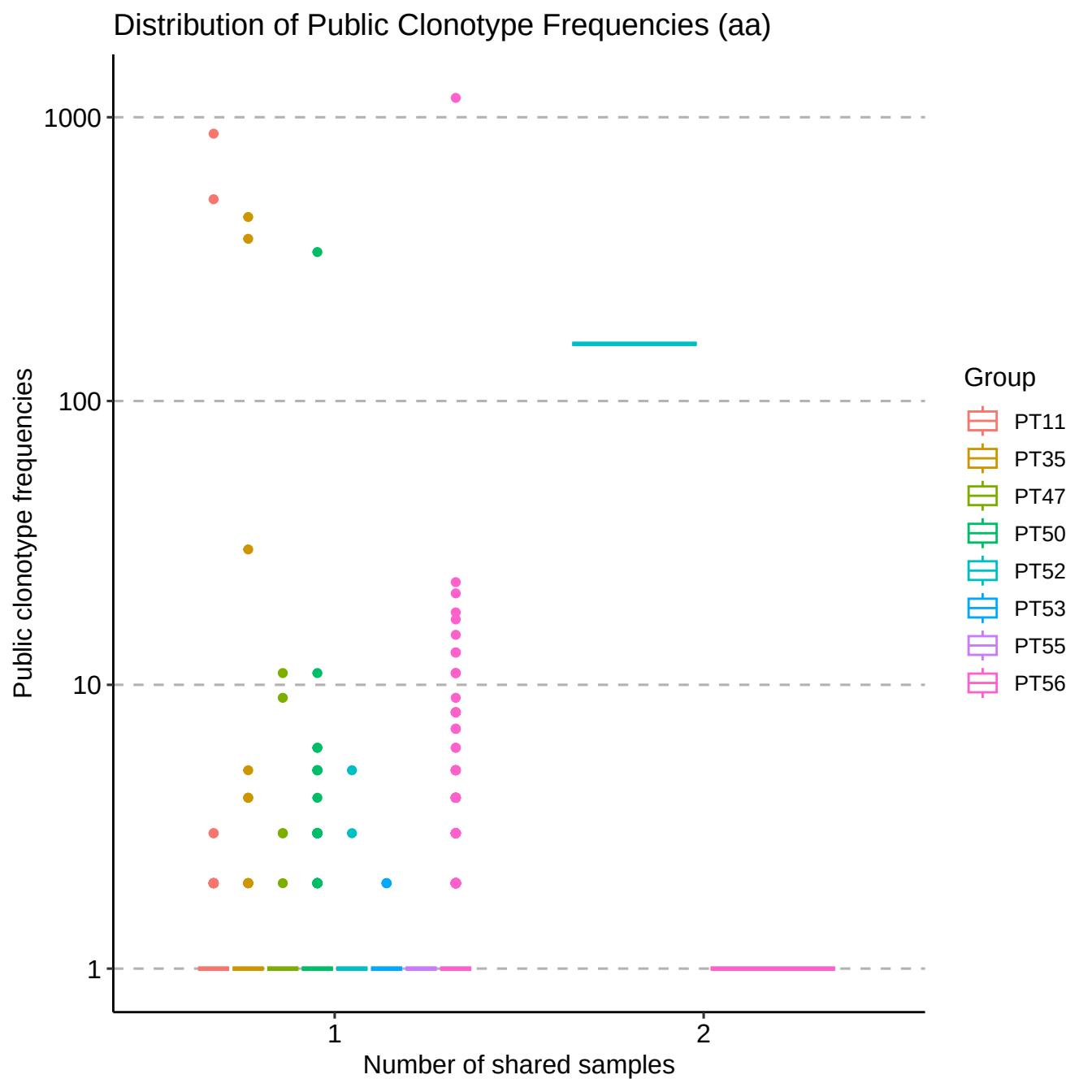

Distribution of Public Clonotype Frequencies (v)
Public clonotype frequencies
1000
100
10
1
1
2
3
4
5
Number of shared samples
Group
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56

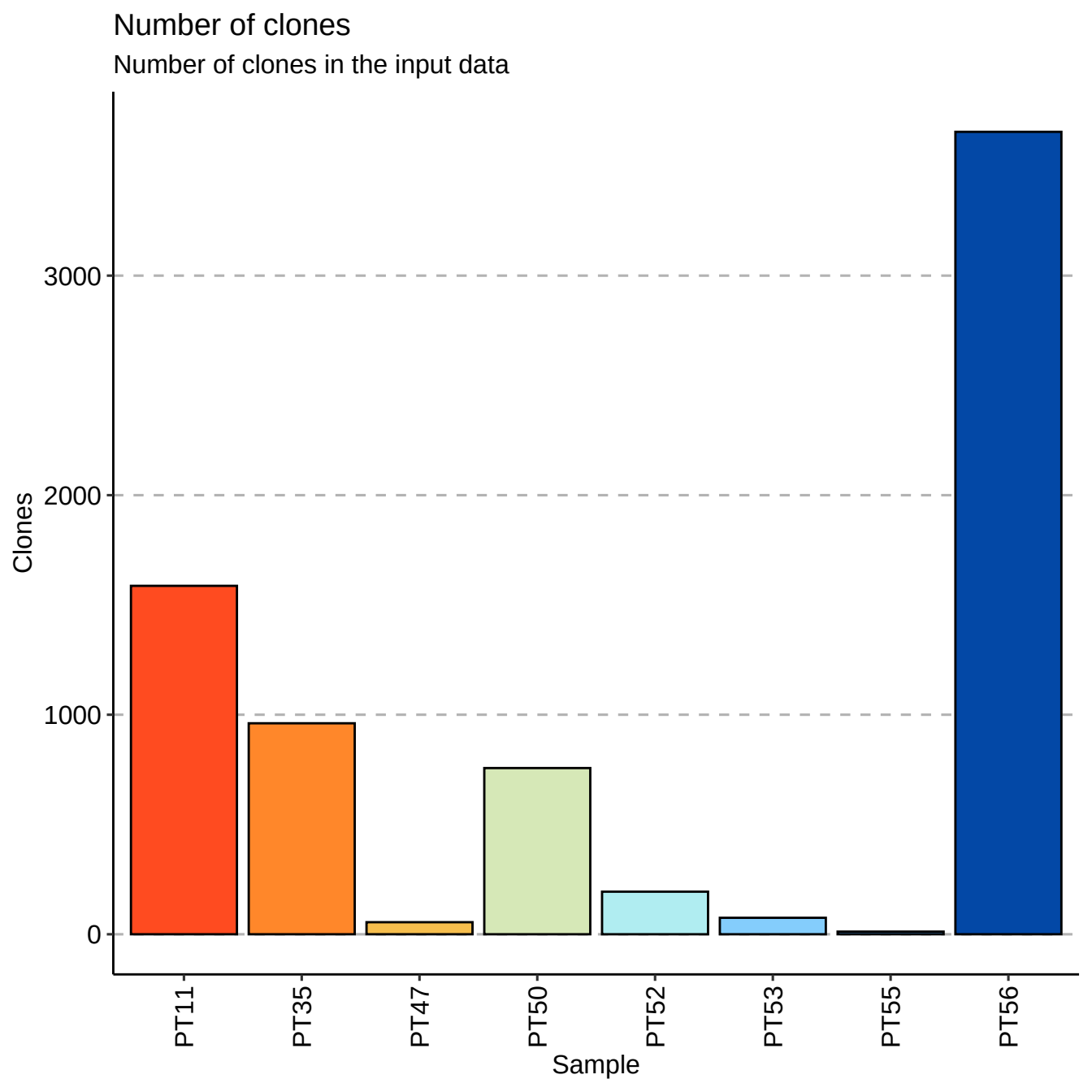

Distribution of Public Clonotype Frequencies (j)
Public clonotype frequencies
1000
100
10
1
1
2
3
4
5
6
Number of shared samples
Group
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56

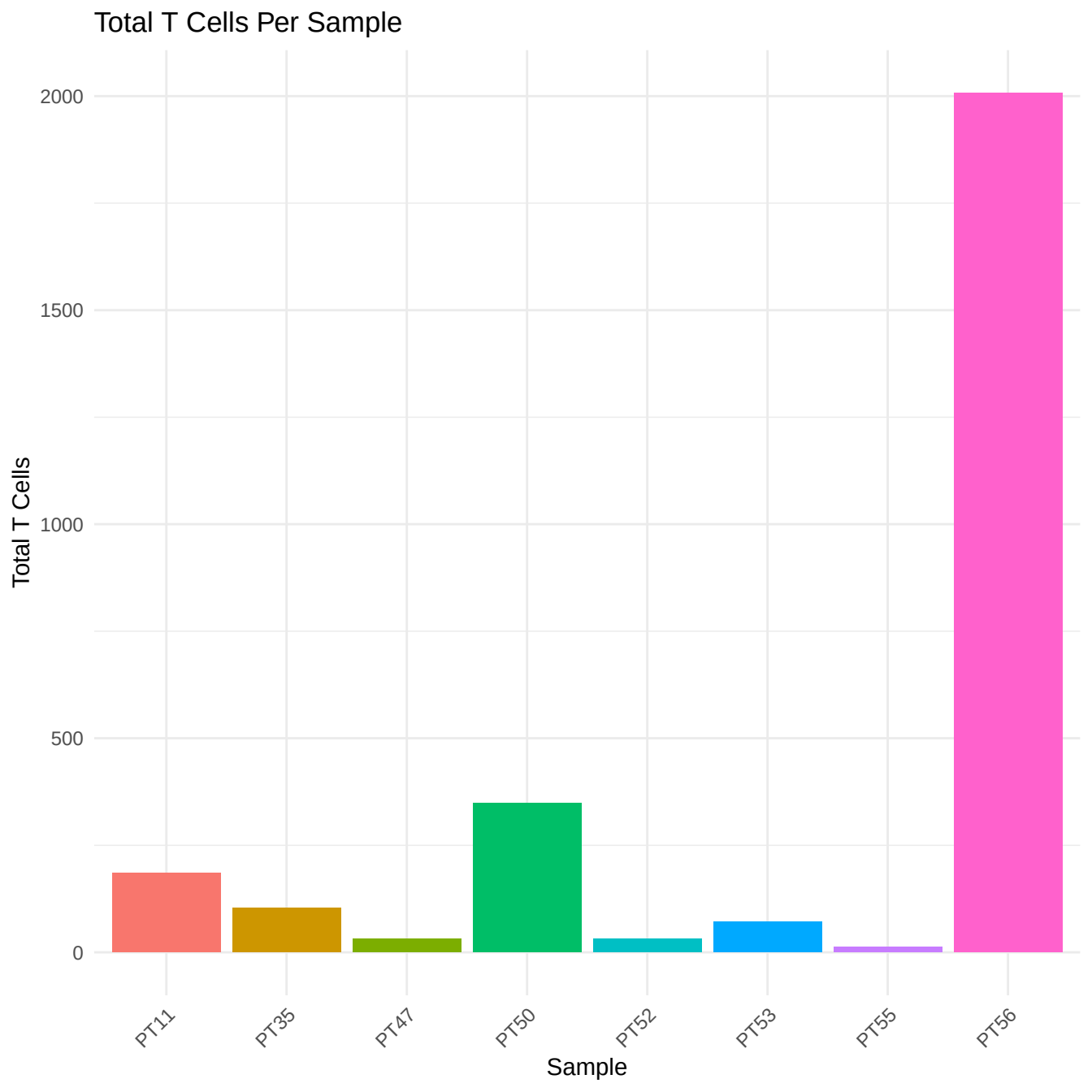

Distribution of Public Clonotype Frequencies (aa+v)
1000
100
10
1
Public clonotype frequencies
1
2
Number of shared samples
Group
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56

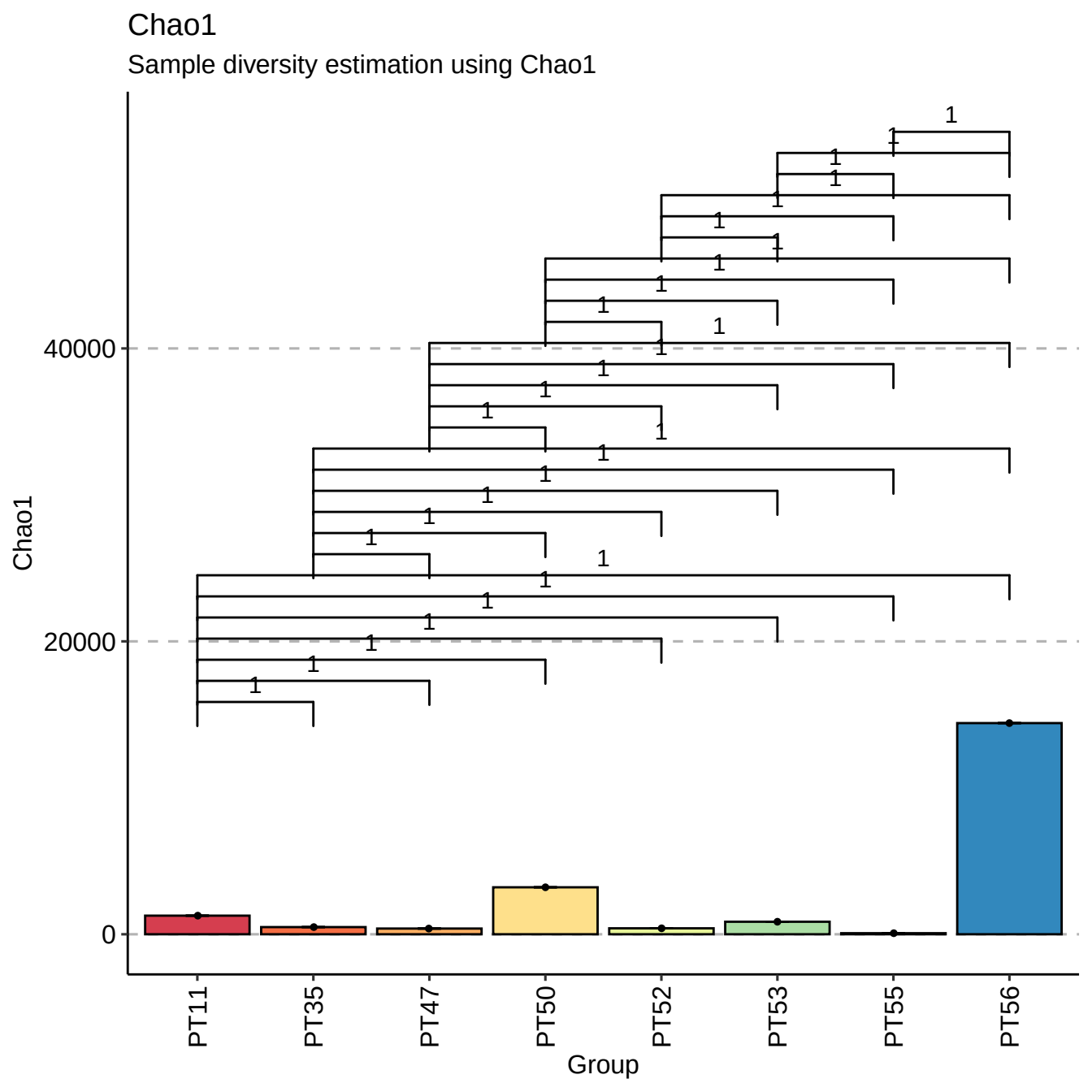

Distribution of Public Clonotype Frequencies (aa+j)
1000
100
10
1
Public clonotype frequencies
1
2
Number of shared samples
Group
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56

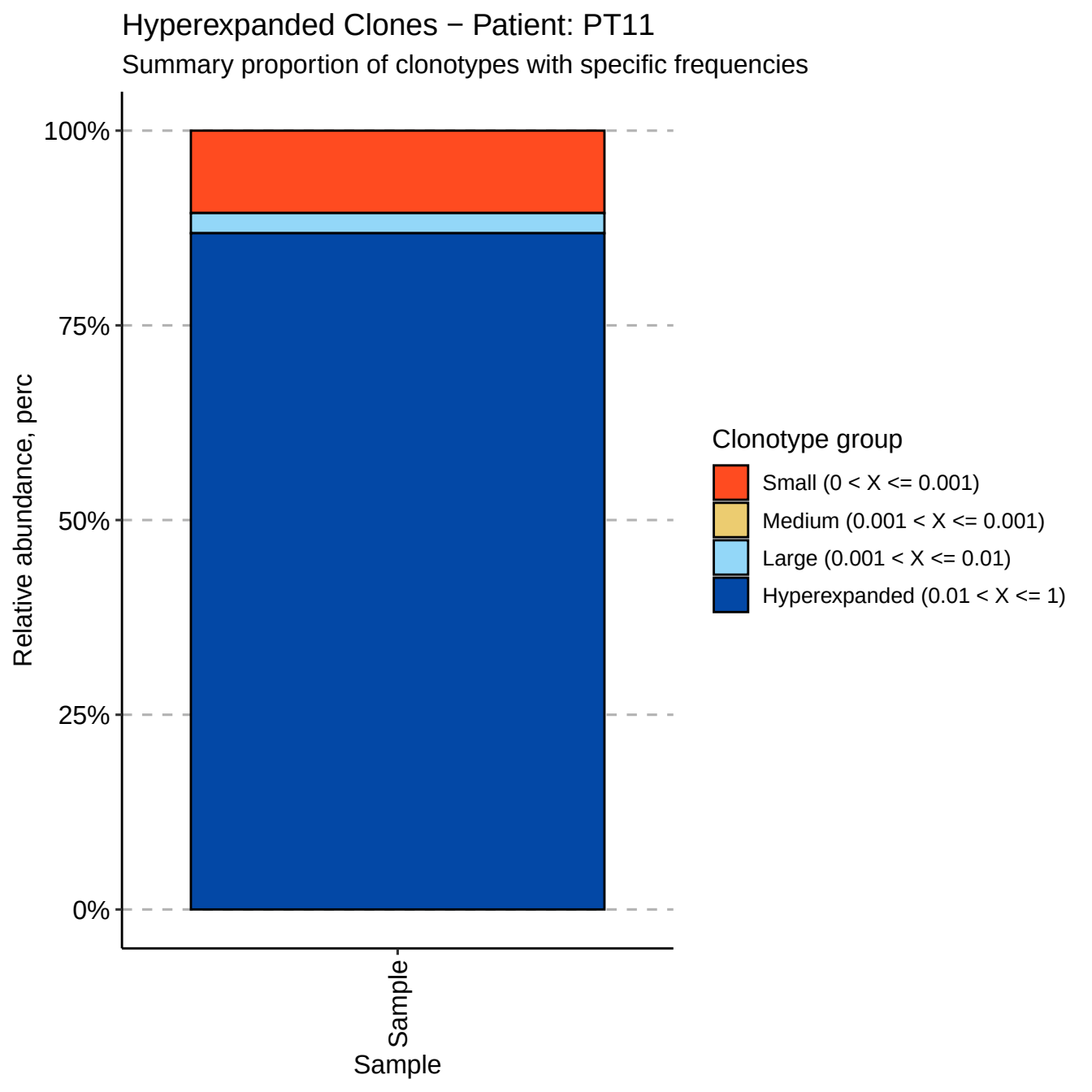

Distribution of Public Clonotype Frequencies (v+j)
Public clonotype frequencies
1000
100
10
1
1
2
3
Number of shared samples
Group
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56

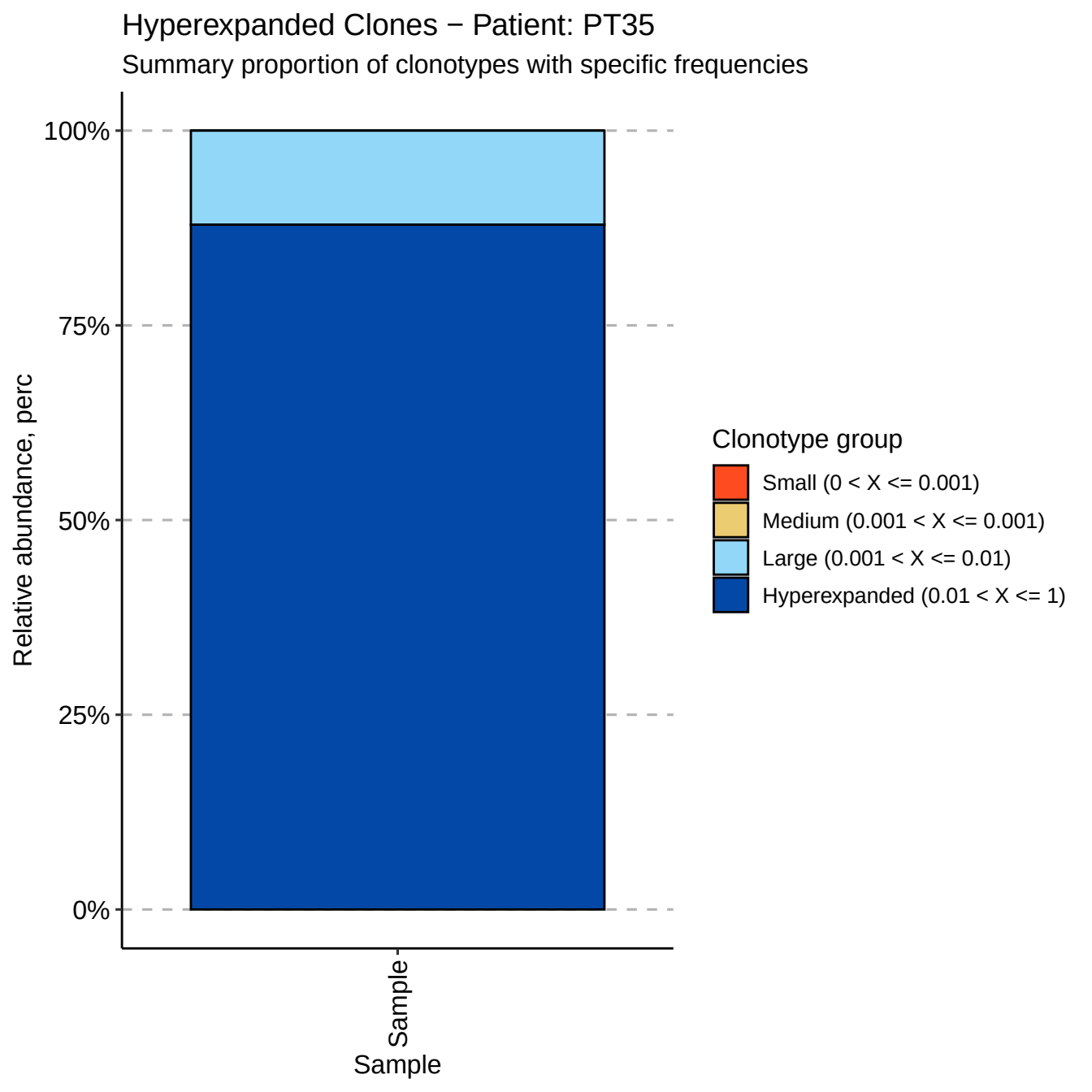

Distribution of Public Clonotype Frequencies (aa)
1000
100
10
1
Public clonotype frequencies
1
2
Number of shared samples
Group
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56

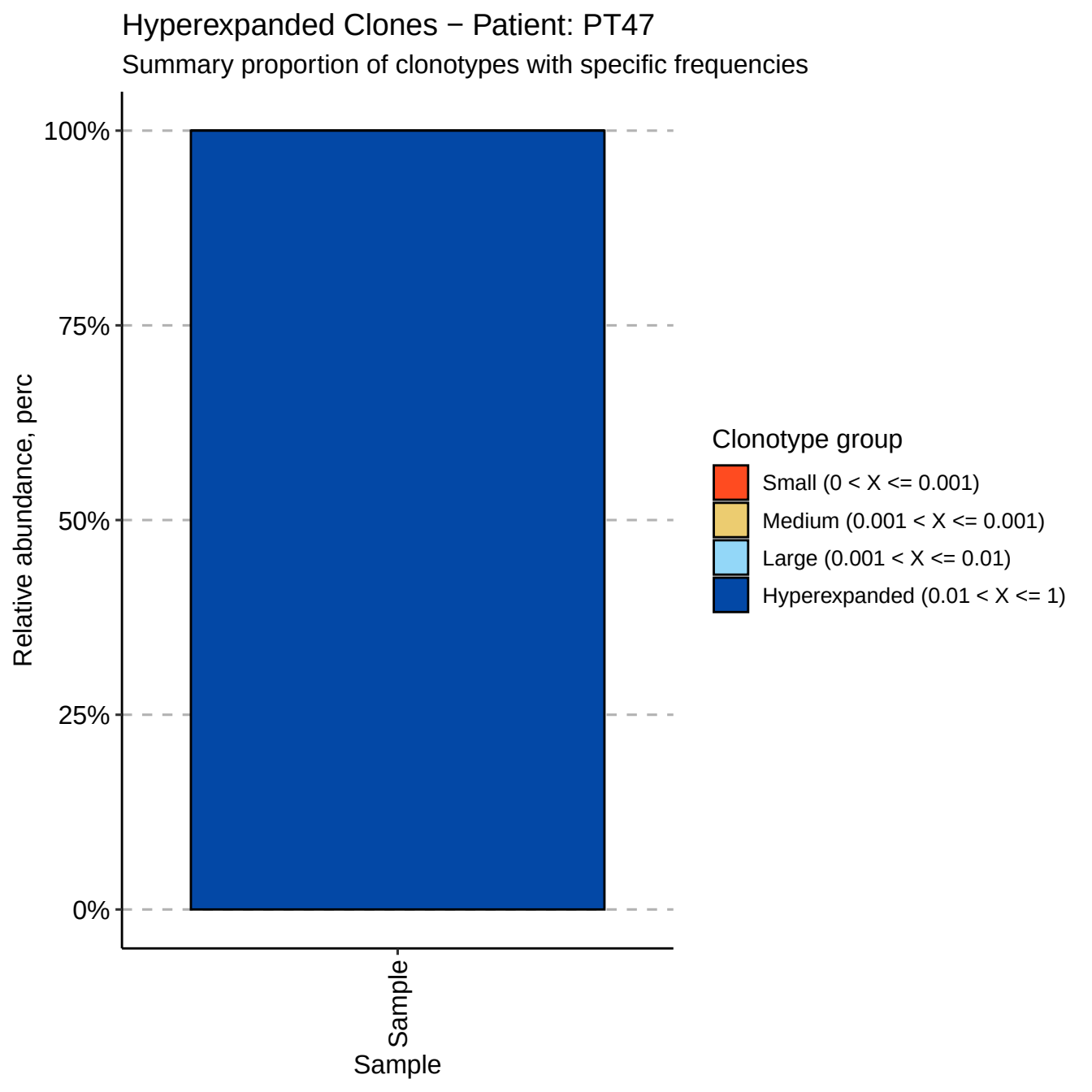

Number of clones
Number of clones in the input data
Clones
3000
2000
1000
0
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56
Sample

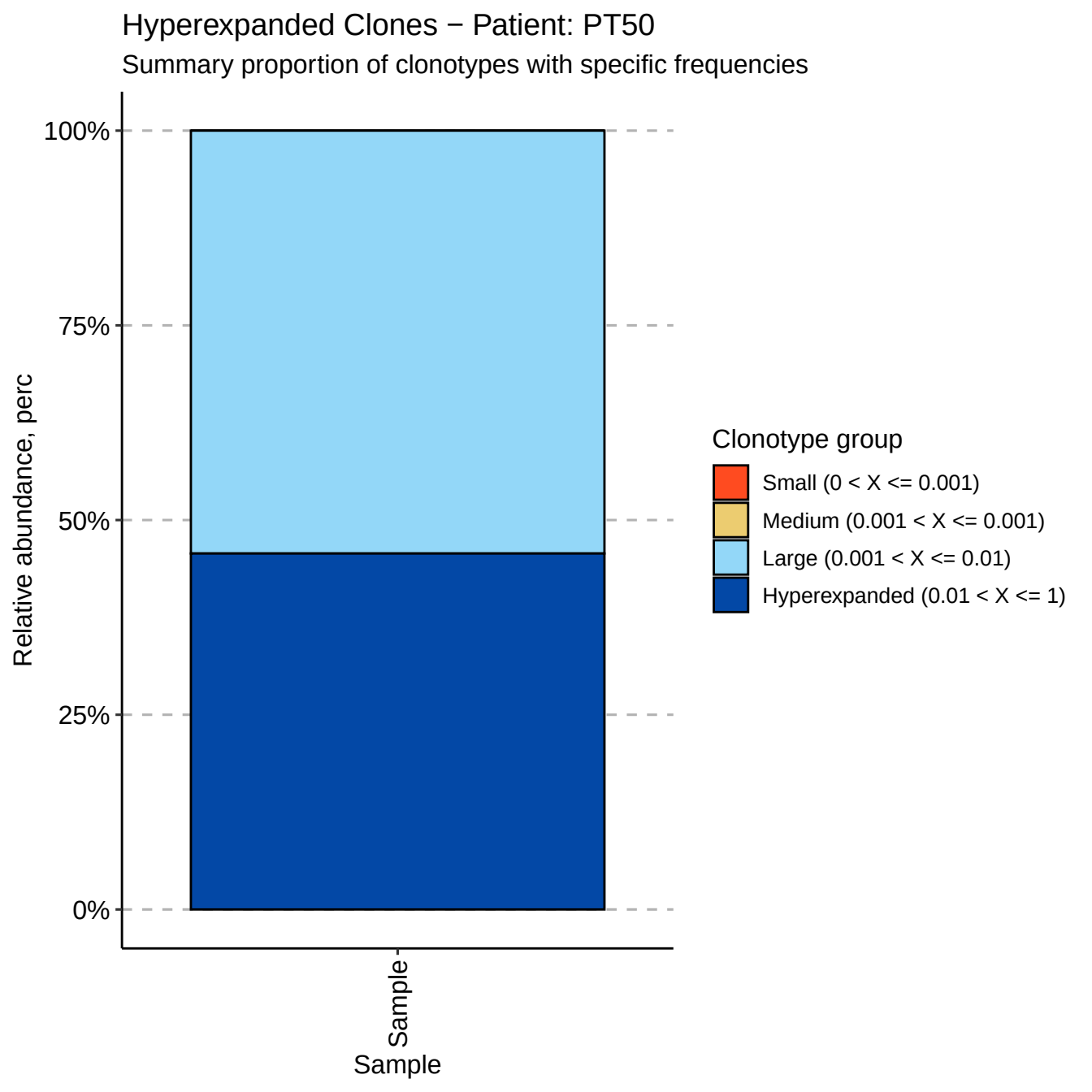

Total T Cells Per Sample
2000
1500
1000
500
0
Total T Cells
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56
Sample

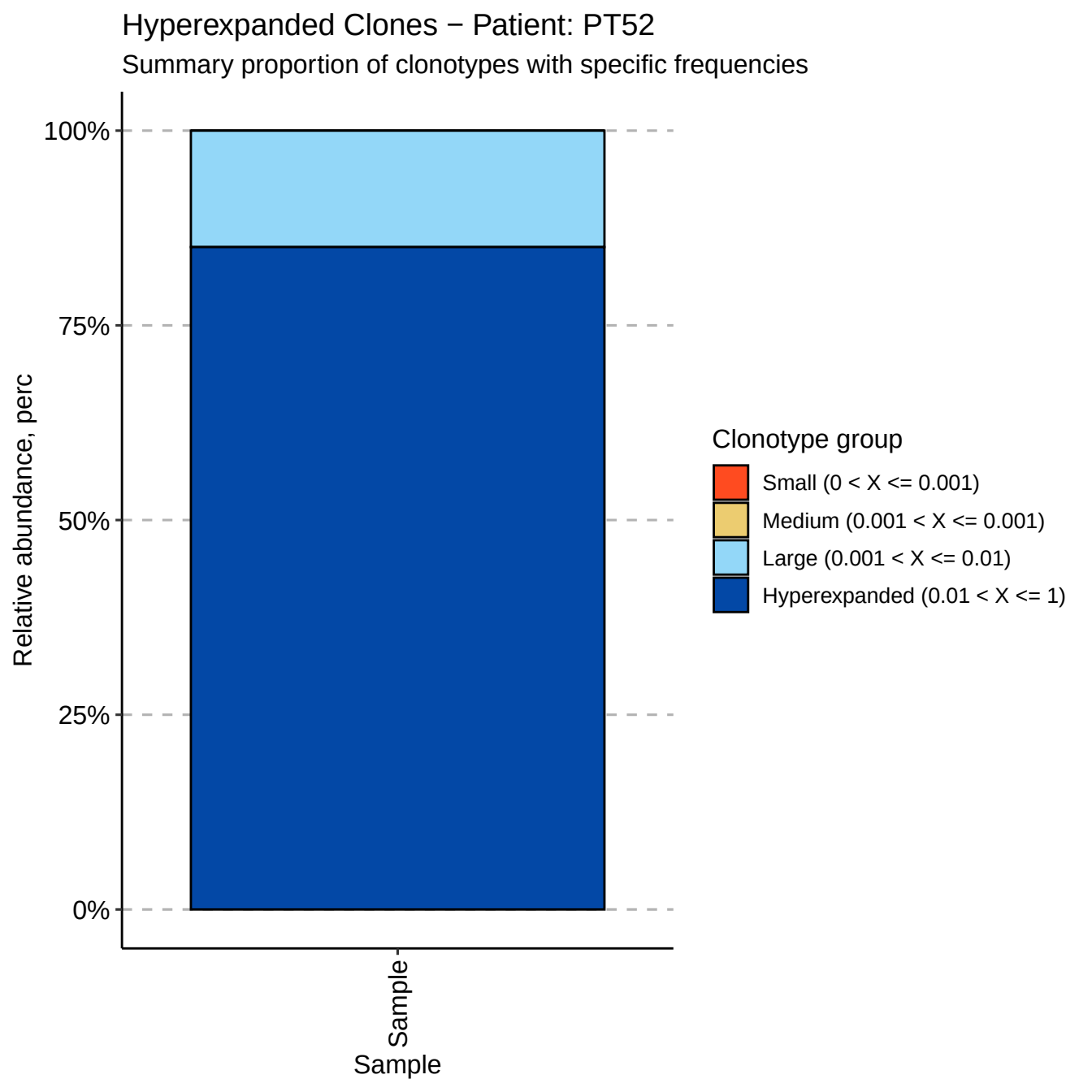

Chao1
Sample diversity estimation using Chao1
Chao1
40000
20000
0
PT11
PT35
PT47
PT50
PT52
PT53
PT55
PT56
Group

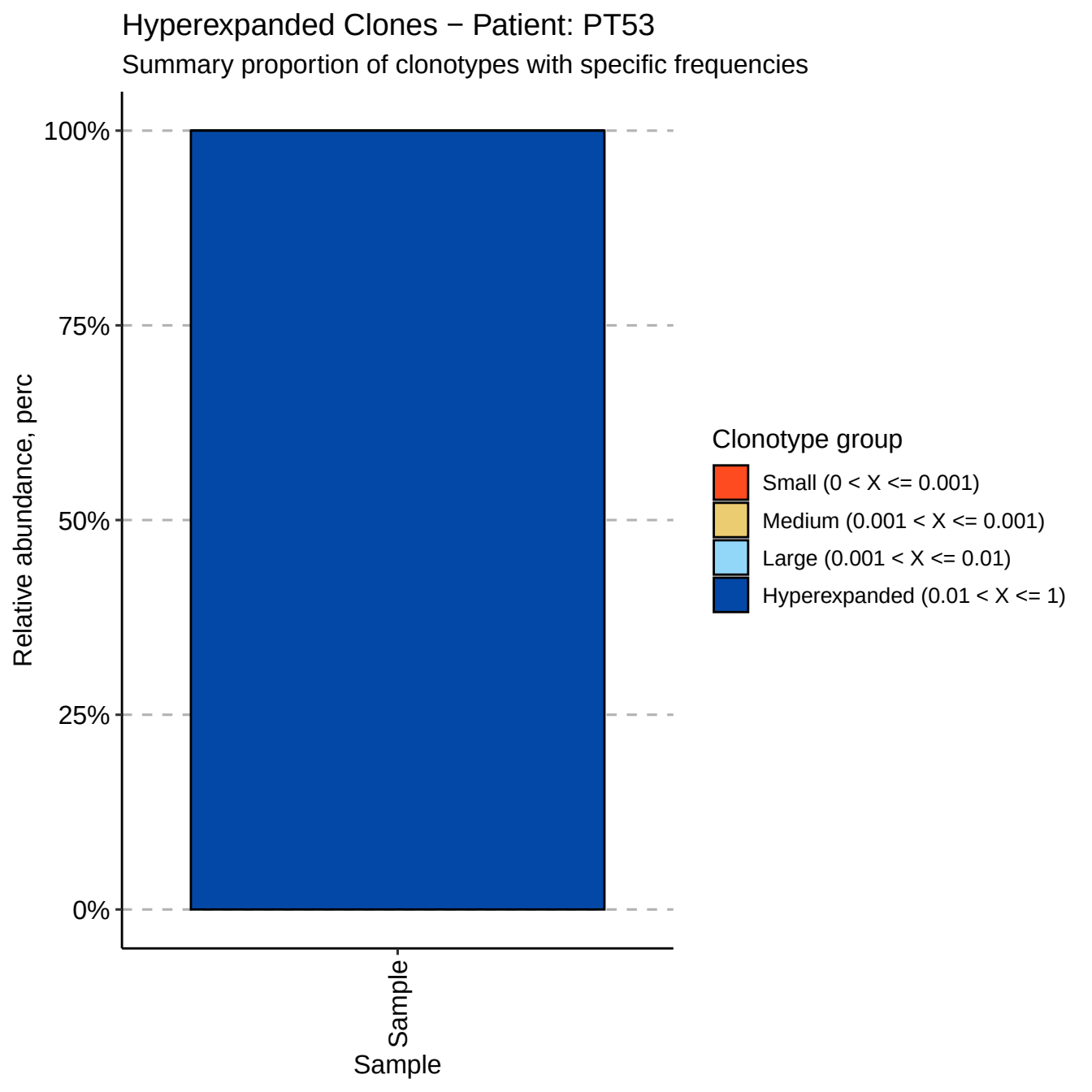

Hyperexpanded Clones − Patient: PT11
Summary proportion of clonotypes with specific frequencies
100%
75%
50%
25%
0%
Relative abundance, perc
Sample
Sample
Clonotype group
Small (0 < X <= 0.001)
Medium (0.001 < X <= 0.001)
Large (0.001 < X <= 0.01)
Hyperexpanded (0.01 < X <= 1)

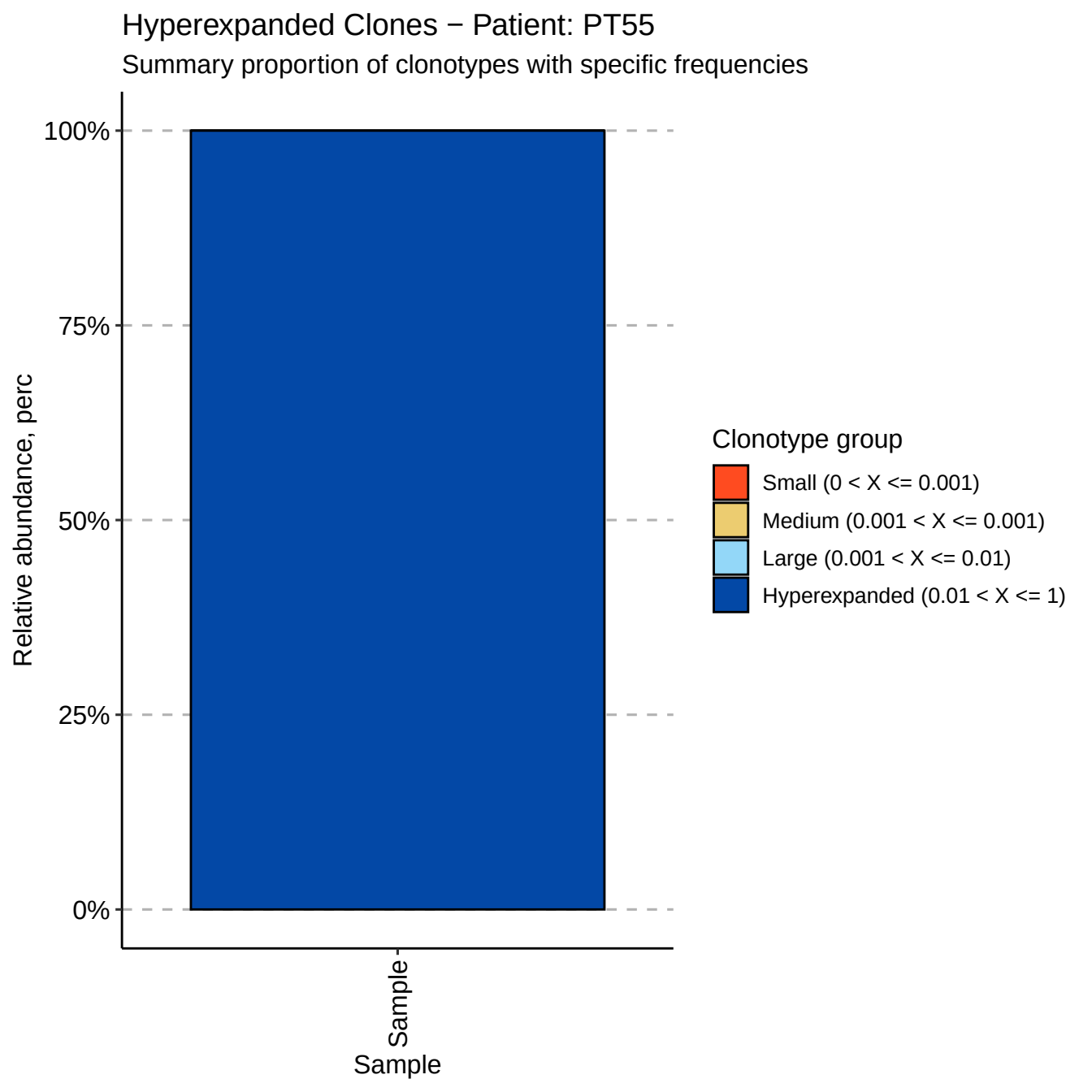

Hyperexpanded Clones − Patient: PT35
Summary proportion of clonotypes with specific frequencies
100%
75%
50%
25%
0%
Relative abundance, perc
Sample
Sample
Clonotype group
Small (0 < X <= 0.001)
Medium (0.001 < X <= 0.001)
Large (0.001 < X <= 0.01)
Hyperexpanded (0.01 < X <= 1)

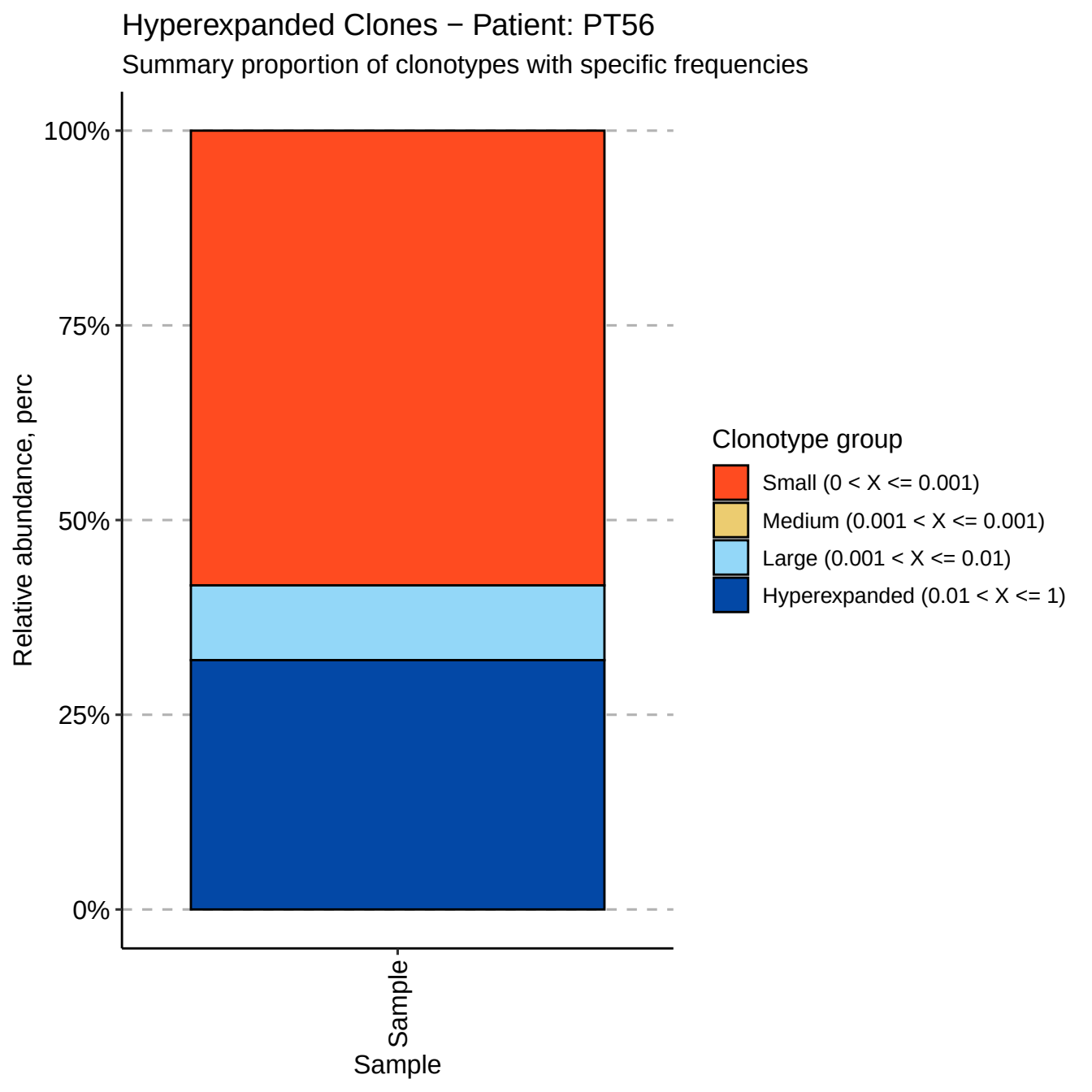

Hyperexpanded Clones − Patient: PT47
Summary proportion of clonotypes with specific frequencies
100%
75%
50%
25%
0%
Relative abundance, perc
Sample
Sample
Clonotype group
Small (0 < X <= 0.001)
Medium (0.001 < X <= 0.001)
Large (0.001 < X <= 0.01)
Hyperexpanded (0.01 < X <= 1)


Hyperexpanded Clones − Patient: PT50
Summary proportion of clonotypes with specific frequencies
100%
75%
50%
25%
0%
Relative abundance, perc
Sample
Sample
Clonotype group
Small (0 < X <= 0.001)
Medium (0.001 < X <= 0.001)
Large (0.001 < X <= 0.01)
Hyperexpanded (0.01 < X <= 1)


Hyperexpanded Clones − Patient: PT52
Summary proportion of clonotypes with specific frequencies
100%
75%
50%
25%
0%
Relative abundance, perc
Sample
Sample
Clonotype group
Small (0 < X <= 0.001)
Medium (0.001 < X <= 0.001)
Large (0.001 < X <= 0.01)
Hyperexpanded (0.01 < X <= 1)


Hyperexpanded Clones − Patient: PT53
Summary proportion of clonotypes with specific frequencies
100%
75%
50%
25%
0%
Relative abundance, perc
Sample
Sample
Clonotype group
Small (0 < X <= 0.001)
Medium (0.001 < X <= 0.001)
Large (0.001 < X <= 0.01)
Hyperexpanded (0.01 < X <= 1)


Hyperexpanded Clones − Patient: PT55
Summary proportion of clonotypes with specific frequencies
100%
75%
50%
25%
0%
Relative abundance, perc
Sample
Sample
Clonotype group
Small (0 < X <= 0.001)
Medium (0.001 < X <= 0.001)
Large (0.001 < X <= 0.01)
Hyperexpanded (0.01 < X <= 1)


Hyperexpanded Clones − Patient: PT56
Summary proportion of clonotypes with specific frequencies
100%
75%
50%
25%
0%
Relative abundance, perc
Sample
Sample
Clonotype group
Small (0 < X <= 0.001)
Medium (0.001 < X <= 0.001)
Large (0.001 < X <= 0.01)
Hyperexpanded (0.01 < X <= 1)

Regression: Total T Cells vs Percentage of Hyperexpanded Clones
Percentage of Hyperexpanded Clones
100
50
0
−50
−100
0
500
1000
1500
2000
Total T Cells