Figure S 1. Overview of the location of CNVRs. CNVRS detected with the oligonucleotide array on a human karyotype ideogram. Genomic positions of SDs of human, chimpanzee, orangutan and macaque are also shown.

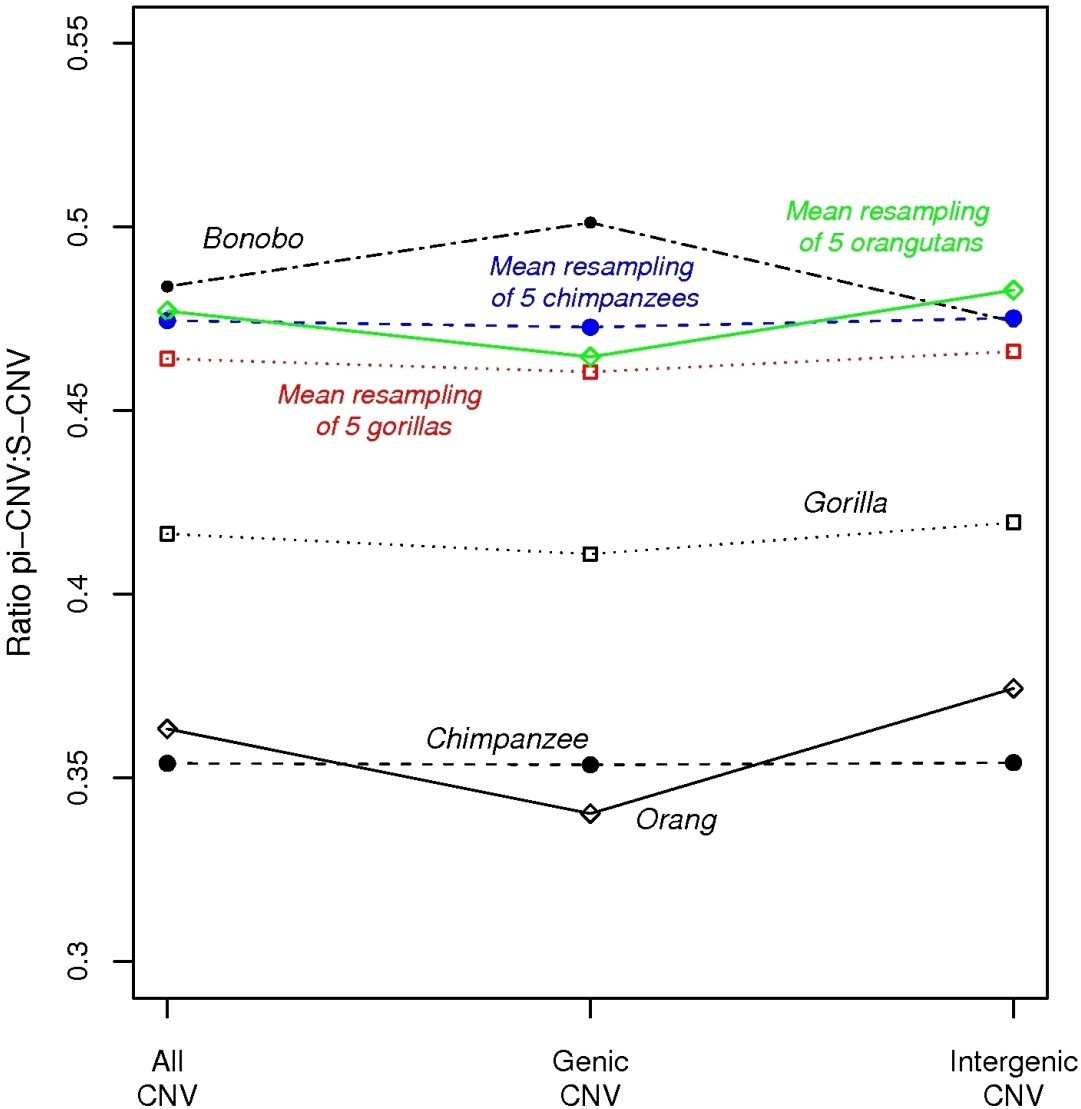

Figure S2. Effect of resampling individuals on the the ratio of CNV over SCNV. The ration is plotted for the four species and for each category of CNVR (all CNVR, genic CNVR and non-genic CNVR). Red, green and blue lines show the mean values of these same variables for the 6 combinations of 5 gorillas, 5 orangutans and 5 chimpanzee, respectively.

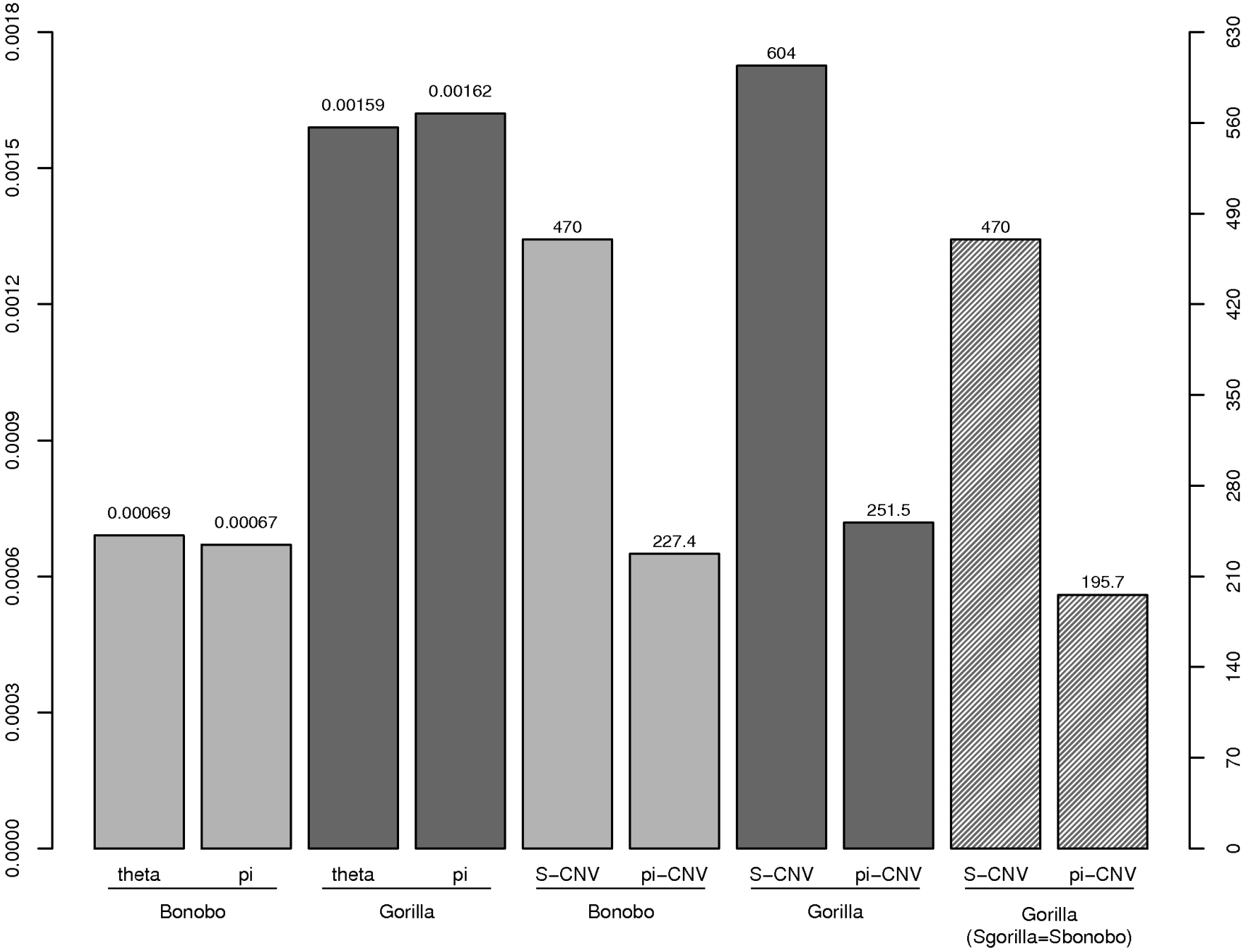

Figure S3. Nucleotide and CNV diversity patterns in bonobo and gorilla. The left y axis gives the scale of the nucleotide diversity values and the right y axis gives the values of CNV diversity data. The dashed bars show the results of the resampling procedure on gorillas, in which S-CNV gorilla is set N= 470 (the value of S-CNV bonobo). The pi-CNV value is the mean pi-CNV over 100,000 random resampling of N gorilla CNVR.

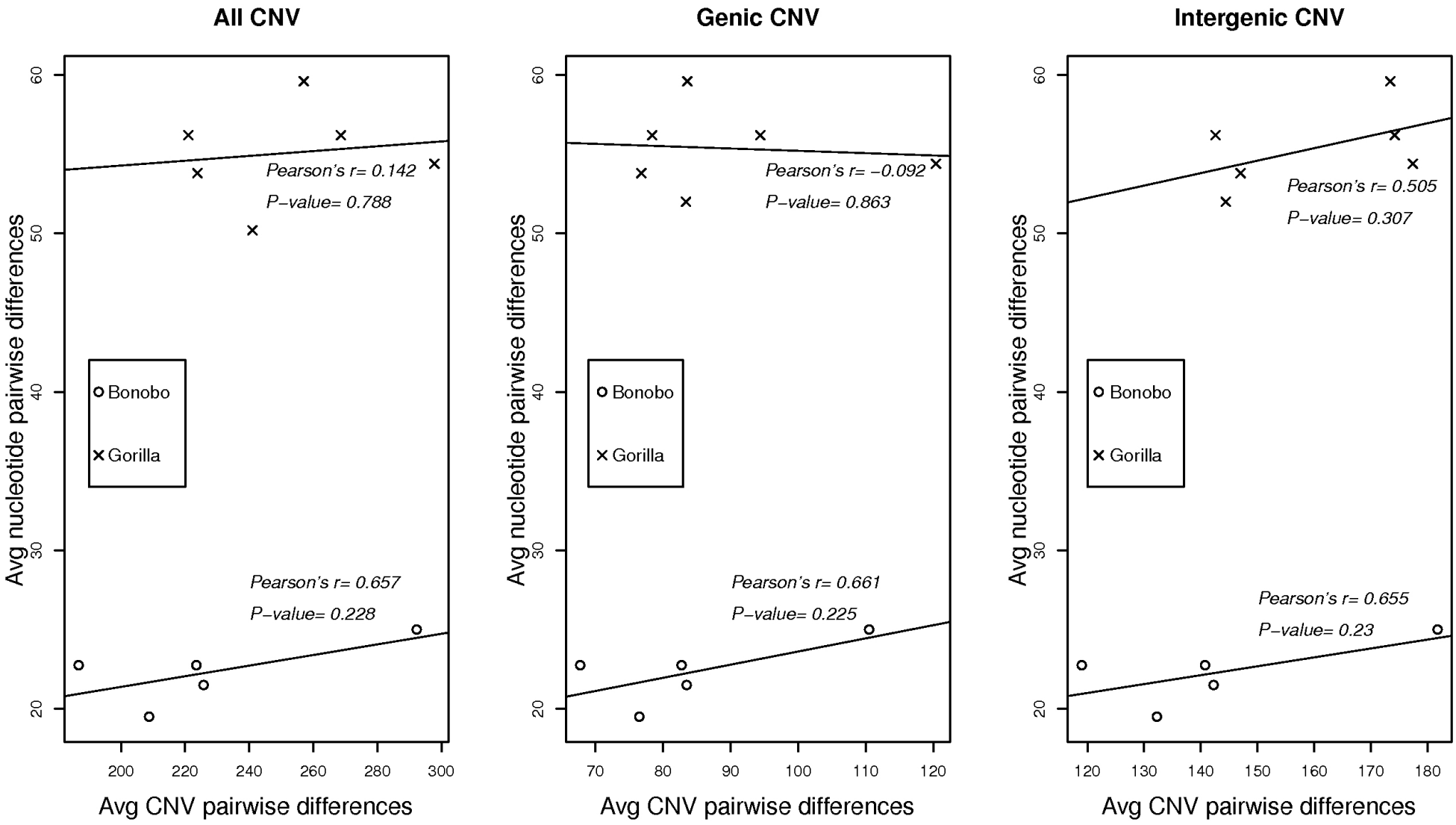

Figure S4. Relationship between nucleotide and CNV diversity. Each dot represents the mean pairwise difference in CNVRs (presence/absence) and nucleotide changes of each individual against the rest of the same species. Data are shown for all CNVR together, genic CNVR alone, and intergenic CNVR alone.

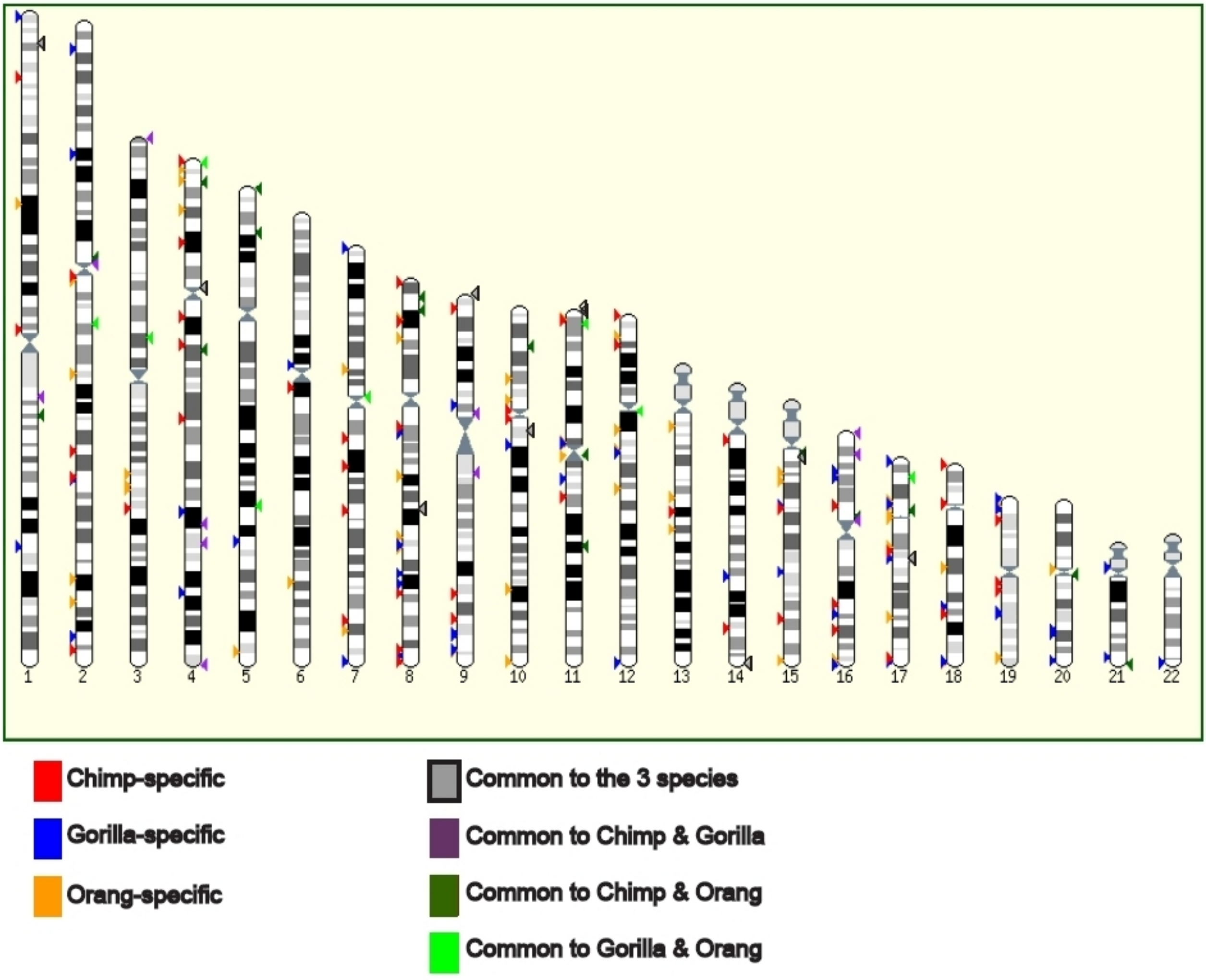

Figure S5. Location of BAC-detected CNVRs. CNVRs detected with the BAC array on a human karyotype ideogram.

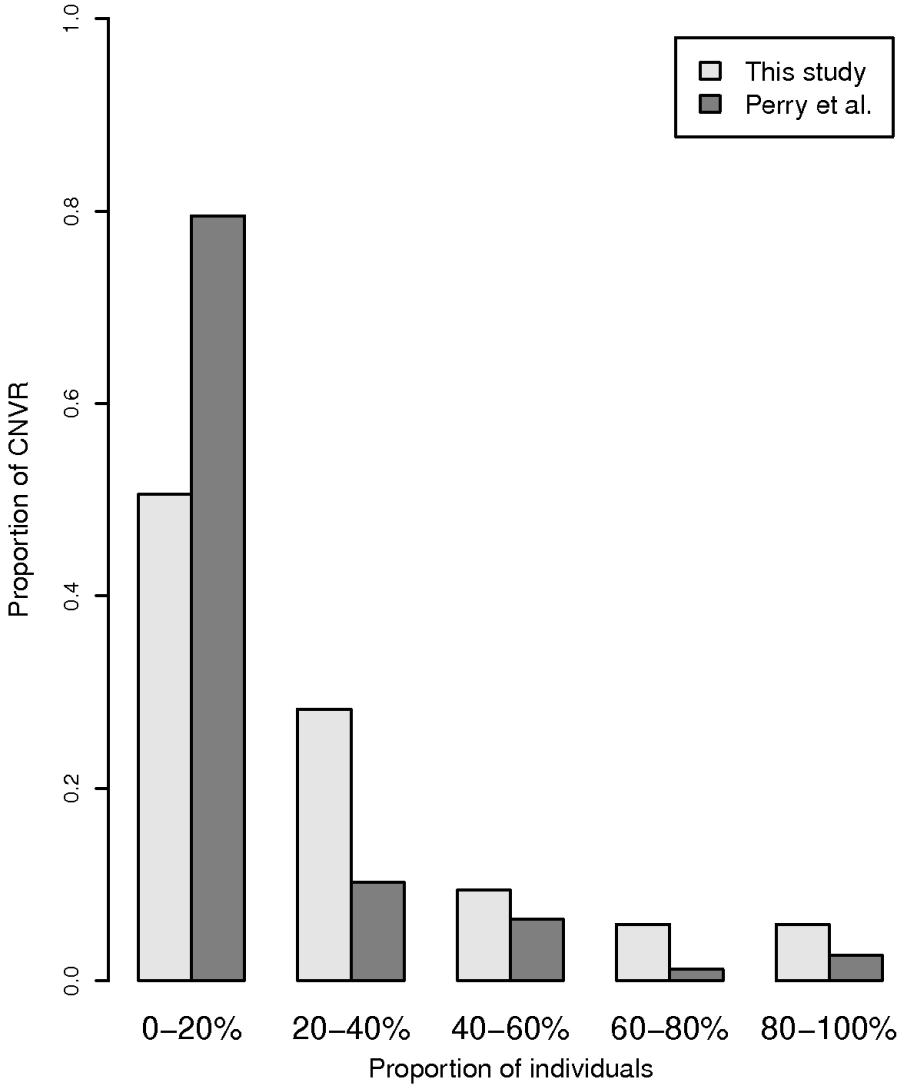

Figure S6. Chimpanzee frequency distribution comparison. Distribution of the proportion of individuals per CNVR for chimpanzees hybridized on the BAC array in the present study (light gray) and chimpanzees studied by Perry et al. (2008) (dark gray).

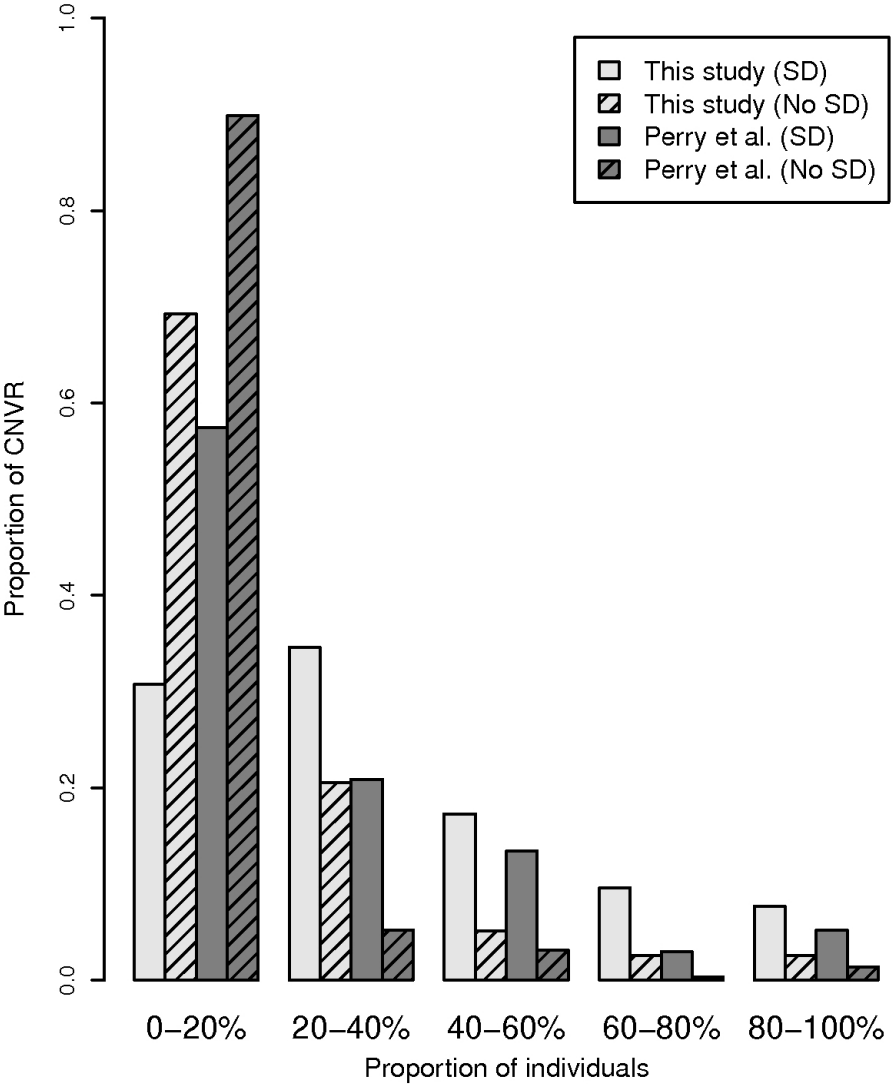

Figure S7. Chimpanzee frequency distribution according their overlap with SDs. The comparsion between the chimpanzees hybridized on the BAC array in the present study (light gray) and the chimpanzees studied by Perry et al. (2008) (dark gray) is shown.

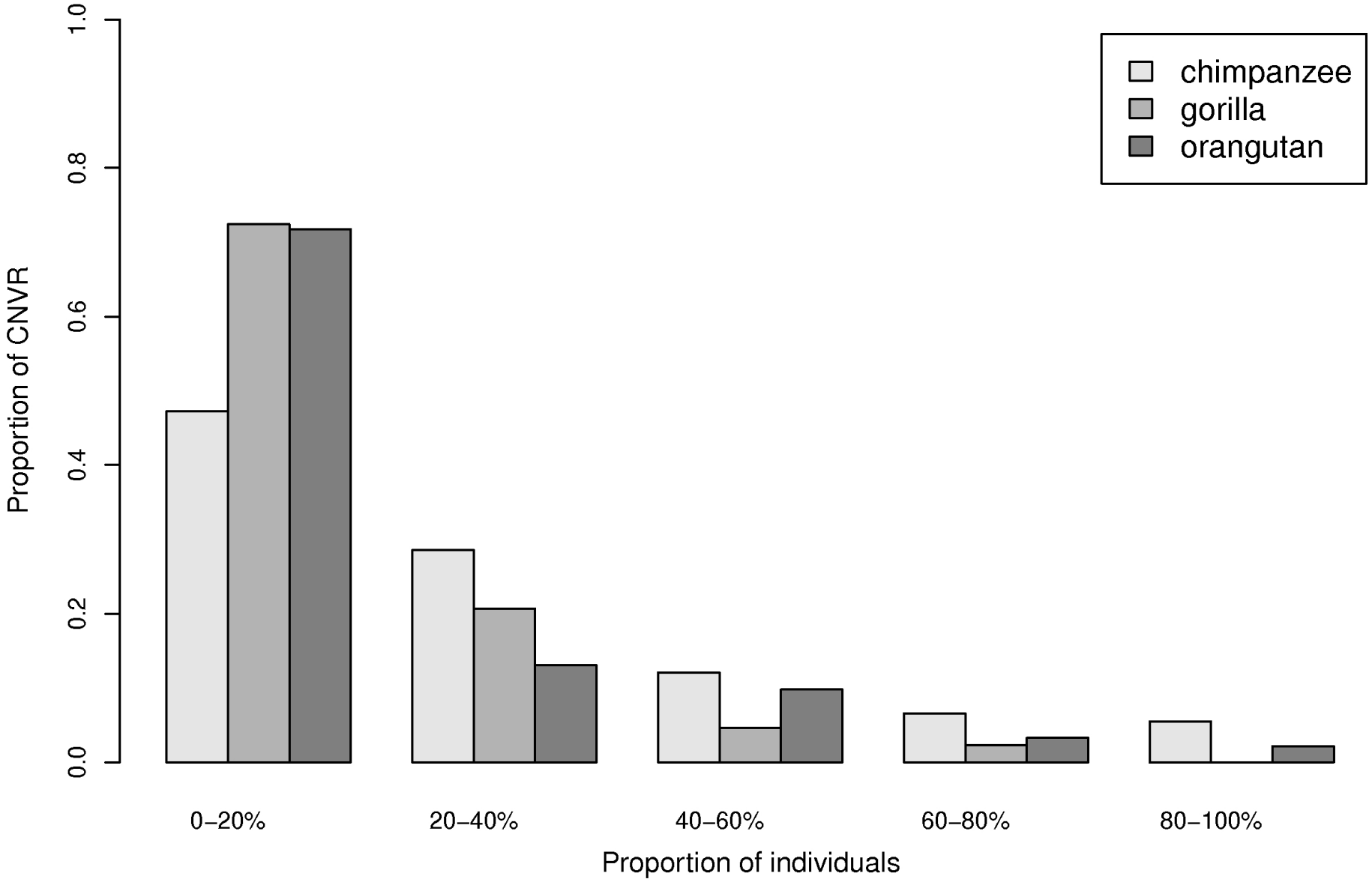

Figure S8. Frequency distribution of BAC-array CNVRs. Proportion of CNVR detected with the BAC array that are supported by a given proportion of the individuals of the sample.

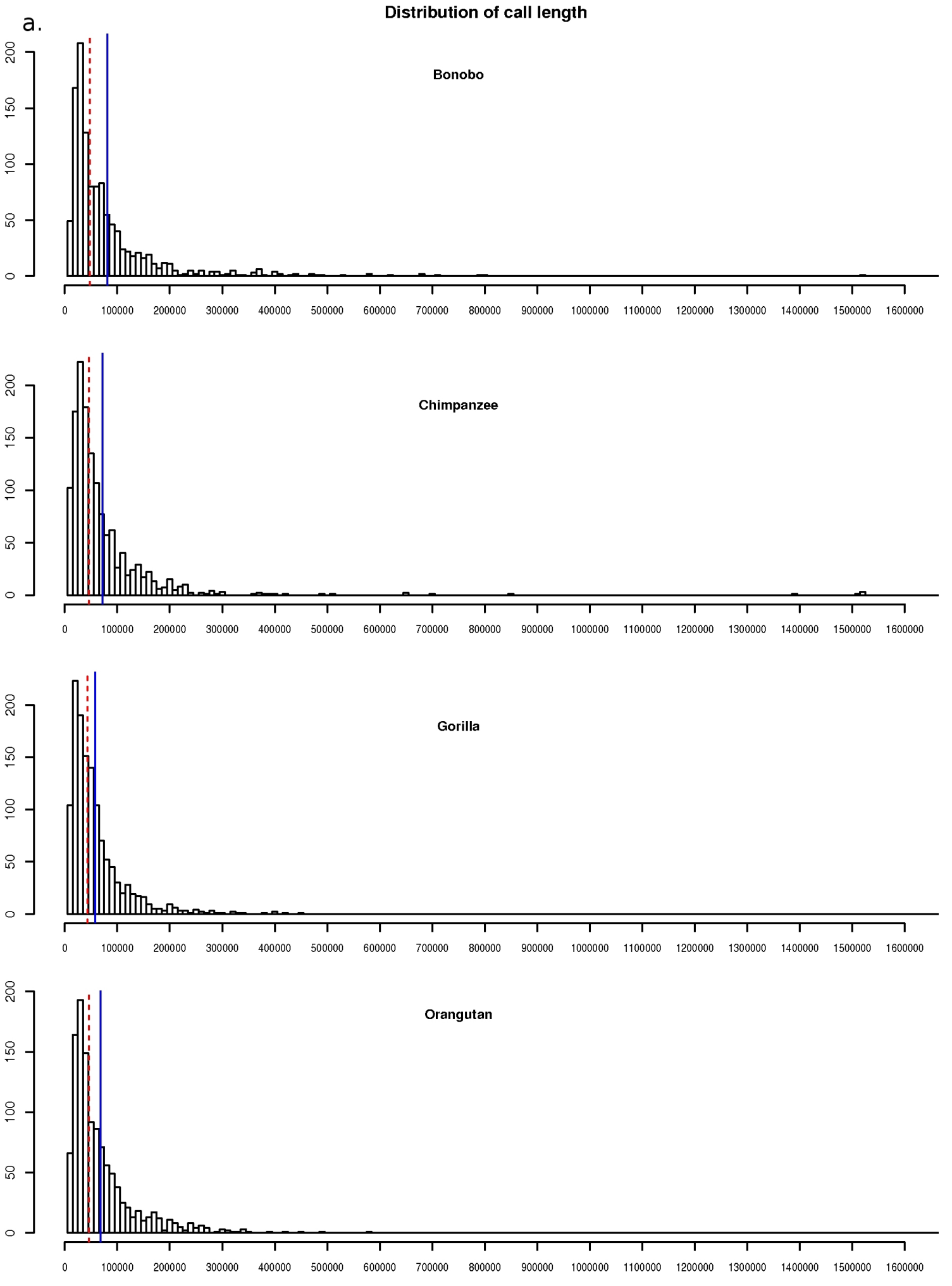

Figure S9. Distribution of lengths of CNVs and CNVRs. Solid lines (blue) indicate mean values of the distribution, dashed lines (red) indicate median values. (a) Full distribution of call length.

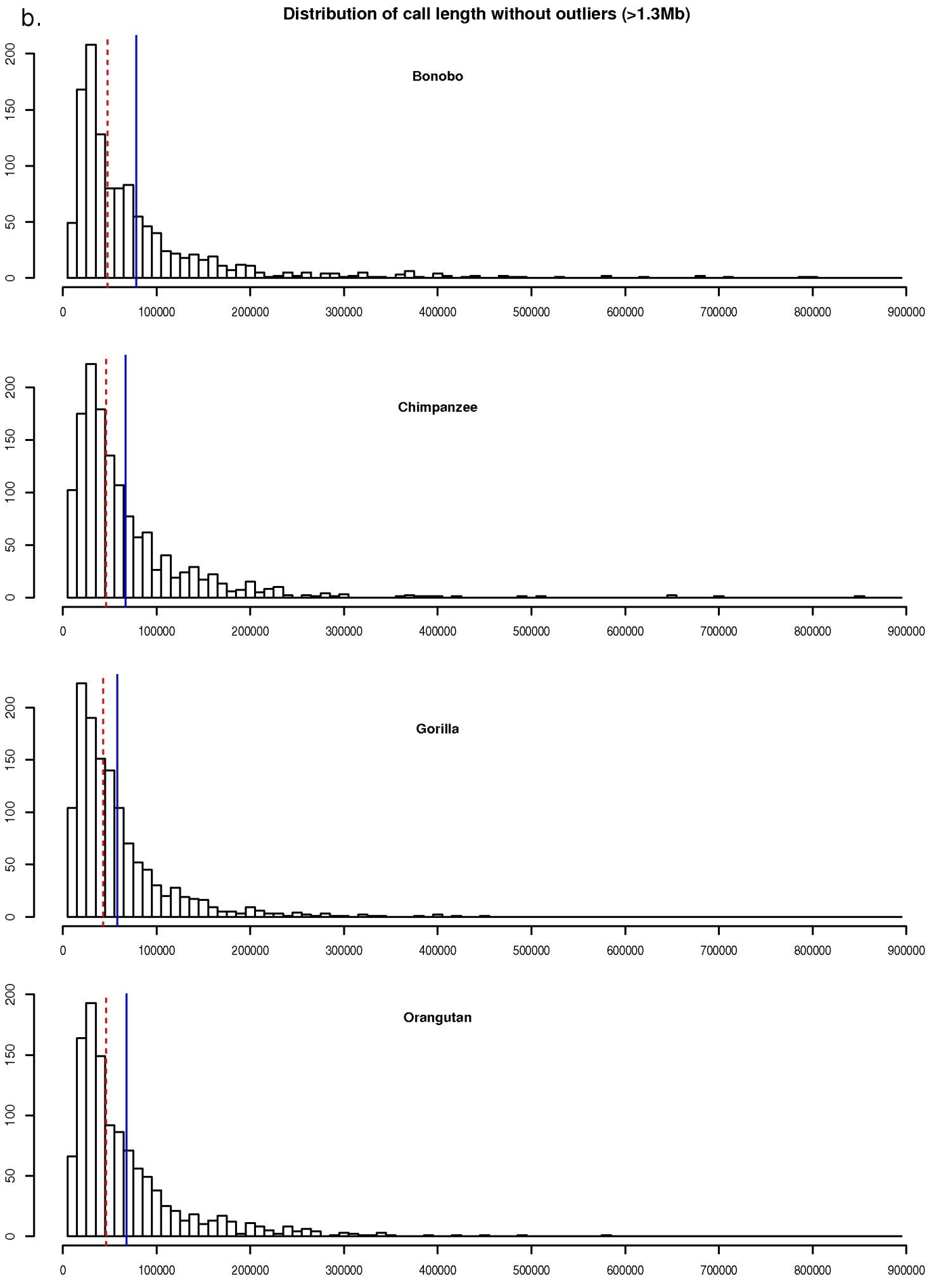

Figure S9. Distribution of lengths of CNVs and CNVRs. Solid lines (blue) indicate mean values of the distribution, dashed lines (red) indicate median values. (b) Distribution of call length without outliers (CNV > 1.3 Mb).

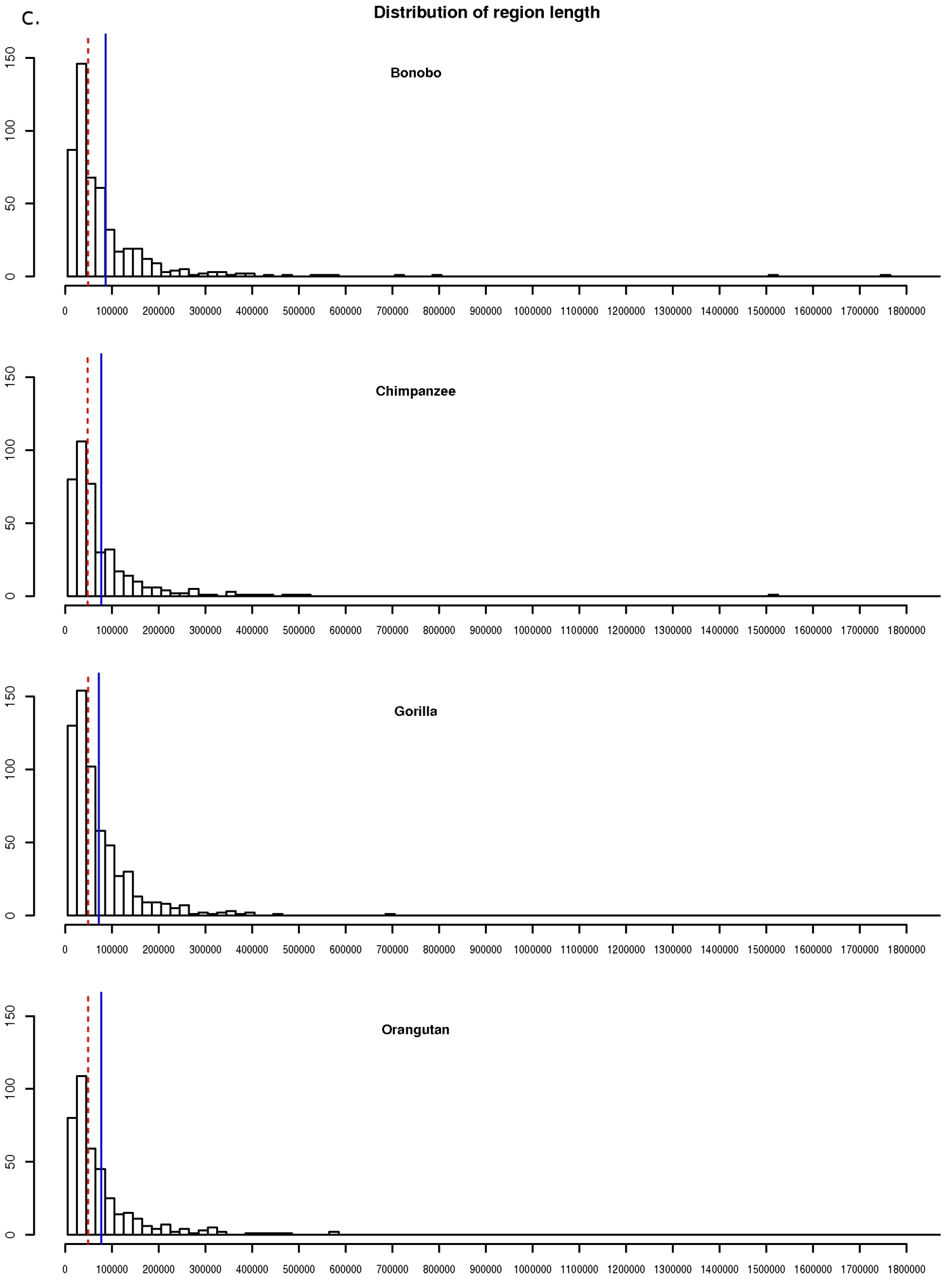

Figure S9. Distribution of lengths of CNVs and CNVRs. Solid lines (blue) indicate mean values of the distribution, dashed lines (red) indicate median values. (c) Full distribution of CNVR length.

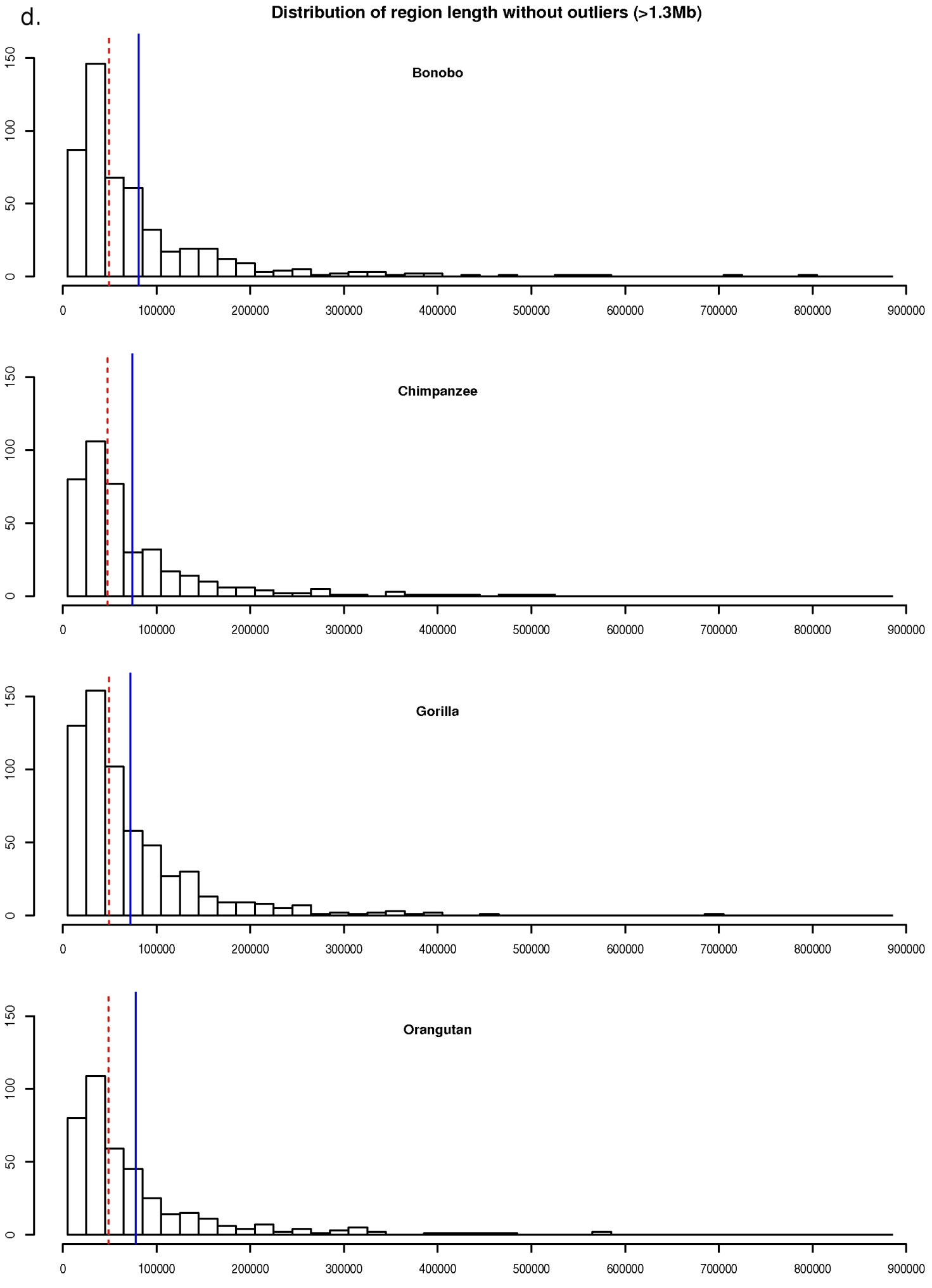

Figure S9. Distribution of lengths of CNVs and CNVRs. Solid lines (blue) indicate mean values of the distribution, dashed lines (red) indicate median values. (d) Distribution of lengths of CNVRs built after removing outlier calls.

Scale
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50 kb
192050000
192100000
192150000
Gorilla 6
Gorilla 5
Gorilla 1
Gorilla 2
Gorilla 3
Gorilla 4
Bonobo 3
Bonobo 2
Bonobo 5
Bonobo 1
Bonobo 4
Orang 8
Orang 9
Orang 7
Orang 2
Orang 4
Orang 1
Orang 6
Orang 5
Orang 3
Chimp 6
Chimp 5
Chimp 4
Chimp 2
Chimp 1
Chimp 3
Chimp 8
Chimp 7
Chimp 9
RefSeq Genes

Scale
chr1:
200 kb
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83200000
83300000
83400000
83500000
83600000
83700000
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GGOKB3456_GGOpg20_ApeChip2
GGOpg20_GGOKB3456_ApeChip2
Gorilla 5
GGOKB3784_GGOpg20_ApeChip2
GGOpg20_GGOKB3784_ApeChip2
Gorilla 1
GGOKB5712_GGOpg20_ApeChip2
GGOpg20_GGOKB5712_ApeChip2
Gorilla 2
GGOKB5829_GGOpg20_ApeChip2
GGOpg20_GGOKB5829_ApeChip2
Gorilla 3
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GGOpg20_GGOKB7973_ApeChip2
Gorilla 4
GGOOR934_GGOpg20_ApeChip2
GGOpg20_GGOOR934_ApeChip2
Bonobo 3
PPA_KB1650_PPA_LB502_ApeChip2
PPA_LB502_PPA_KB1650_ApeChip2
Bonobo 2
PPA_KB4229_PPA_LB502_ApeChip2
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Bonobo 5
PPA_KB7036_PPA_LB502_ApeChip2
PPA_LB502_PPA_KB7036_ApeChip2
Bonobo 1
PPA_OR1166_PPA_LB502_ApeChip2
PPA_LB502_PPA_OR1166_ApeChip2
Bonobo 4
PPA_OR310_PPA_LB502_ApeChip2
PPA_LB502_PPA_OR310_ApeChip2
Orang 8
PPYpo12_PPYpo14_ApeChip2_Bcn
PPYpo14_PPYpo12_ApeChip2_Bcn
Orang 9
PPYpo13_PPYpo14_ApeChip2_Bcn
PPYpo14_PPYpo13_ApeChip2_Bcn
Orang 7
PPYppy10_PPYpo14_ApeChip2_Bcn
PPYpo14_PPYppy10_ApeChip2_Bcn
Orang 2
PPY AG12256 vs PPY Susie Apechip2
PPY Susie vs PPY AG12256 ApeChip2
Orang 4
PPY Hati vs PPY Susie Apechip2
PPY Susie vs PPY Hati ApeChip2
Orang 1
PPY PPY9 vs PPY Susie Apechip2
PPY Susie vs PPY PPY9 ApeChip2
Orang 6
PPY AG05252 vs PPY Susie Apechip2
PPY Susie vs PPY AG05252 ApeChip2
Orang 5
PPY PPY6 vs PPY Susie Apechip2
PPY Susie vs PPY PPY6 ApeChip2
Orang 3
PPY Tengku vs PPY Susie Apechip2
PPY Susie vs PPY Tengku ApeChip2
Chimp 6
PTRpx1_PTRpx14_ApeChip2_Bcn
PTRpx14_PTRpx1_ApeChip2_Bcn
Chimp 5
PTRpx20_PTRpx14_ApeChip2_Bcn
PTRpx14_PTRpx20_ApeChip2_Bcn
Chimp 4
PTRpx22_PTRpx14_ApeChip2_Bcn
PTRpx14_PTRpx22_ApeChip2_Bcn
Chimp 2
PTRpx25_PTRpx14_ApeChip2_Bcn
PTRpx14_PTRpx25_ApeChip2_Bcn
Chimp 1
PTRpx27_PTRpx14_ApeChip2_Bcn
PTRpx14_PTRpx27_ApeChip2_Bcn
Chimp 3
PTRpx31_PTRpx14_ApeChip2_Bcn
PTRpx14_PTRpx31_ApeChip2_Bcn
Chimp 8
PTR PR00496 vs PTR Clint Apechip2
PTR Clint vs PTR PR00496 ApeChip2
Chimp 7
PTR PR01009 vs PTR Clint Apechip2
PTR Clint vs PTR PR01009 ApeChip2
Chimp 9
PTR PR01105 vs PTR Clint Apechip2
PTR Clint vs PTR PR01105 ApeChip2
RefSeq Genes

Scale
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100 kb
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70300000
70350000
70400000
70450000
70500000
Gorilla 6
Gorilla 5
Gorilla 1
Gorilla 2
Gorilla 3
Gorilla 4
Bonobo 3
Bonobo 2
Bonobo 5
Bonobo 1
Bonobo 4
Orang 8
Orang 9
Orang 7
Orang 2
Orang 4
Orang 1
Orang 6
Orang 5
Orang 3
Chimp 6
Chimp 5
Chimp 4
Chimp 2
Chimp 1
Chimp 3
Chimp 8
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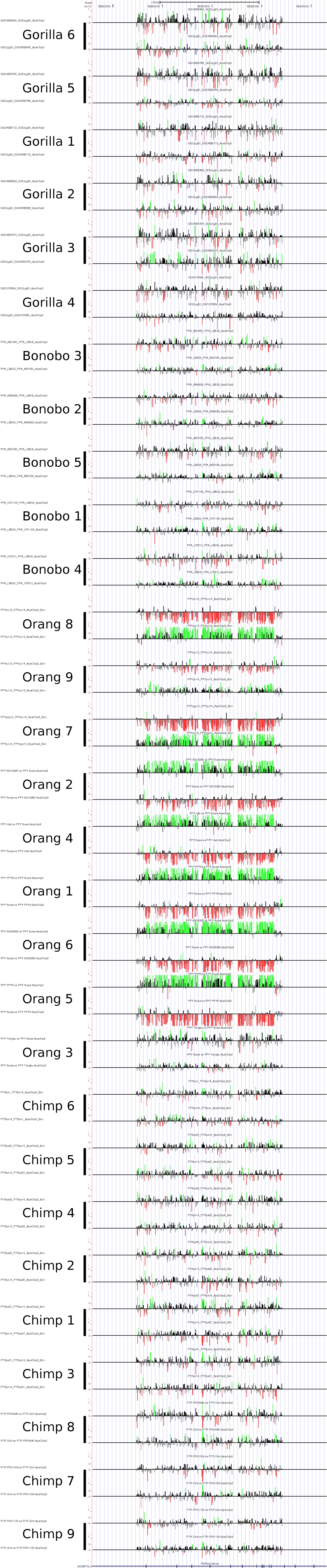
SMN2
SMN1
NAIP
GTF2H2
LOC647859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100 kb
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82300000
82350000
82400000
Gorilla 6
Gorilla 5
Gorilla 1
Gorilla 2
Gorilla 3
Gorilla 4
Bonobo 3
Bonobo 2
Bonobo 5
Bonobo 1
Bonobo 4
Orang 8
Orang 9
Orang 7
Orang 2
Orang 4
Orang 1
Orang 6
Orang 5
Orang 3
Chimp 6
Chimp 5
Chimp 4
Chimp 2
Chimp 1
Chimp 3
Chimp 8
Chimp 7
Chimp 9
RefSeq Genes
ADAMTSL3

Scale
chr11
200 kb
89050000
89100000
89150000
89200000
89250000
89300000
89350000
89400000
89450000
89500000
89550000
Gorilla 6
Gorilla 5
Gorilla 1
Gorilla 2
Gorilla 3
Gorilla 4
Bonobo 3
Bonobo 2
Bonobo 5
Bonobo 1
Bonobo 4
Orang 8
Orang 9
Orang 7
Orang 2
Orang 4
Orang 1
Orang 6
Orang 5
Orang 3
Chimp 6
Chimp 5
Chimp 4
Chimp 2
Chimp 1
Chimp 3
Chimp 8
Chimp 7
Chimp 9
RefSeq Genes
PSMAL
UBTFL2
TRIM43
TRIM53
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TRIM53
UBTFL1
NAALAD2
CHORDC1