

SUPPLEMENTARY MATERIAL

Supplementary Table 1. Percentage of mono- to hexanucleotide P-SSRs in the 5'UTRs of the primates genomes

5'UTR	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
Size (Mb)	1.95	7.40	4.48	2.91	3.02	3.46	3.20	3.30	3.19	22.28
Mono-	13.92	20.19	24.29	28.69	27.79	28.63	18.80	27.04	18.77	19.43
Di-	11.39	9.63	9.18	11.59	11.57	10.74	11.86	13.42	10.93	10.68
Tri-	63.29	56.54	51.98	47.31	44.83	49.26	51.46	44.30	55.53	53.61
Tetra-	8.23	9.34	8.62	8.31	10.23	7.68	10.79	8.48	9.00	10.11
Penta-	1.90	2.51	3.81	2.81	4.55	2.84	5.08	4.04	3.34	3.92
Hexa-	1.27	1.80	2.12	1.29	1.03	0.84	2.00	2.72	2.44	2.26
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Supplementary Table 2. Percentage of mono- to hexanucleotide P-SSRs in the CDSs of the primates genome

Type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
size (Mb)	32.52	67.16	52.61	31.55	35.19	32.66	44.33	32.42	31.64	117.84
Mono-	11.37	5.37	17.53	6.34	2.27	8.27	9.26	5.66	1.99	1.77
Di-	3.65	4.56	3.09	2.21	1.91	3.87	4.44	3.64	1.67	1.47
Tri-	78.15	81.15	73.01	85.22	89.72	81.25	76.34	83.54	91.53	92.58
Tetra-	2.57	3.44	2.64	1.76	1.49	2.02	2.57	2.37	1.22	1.16
Penta-	0.27	0.37	0.39	1.25	0.28	0.95	1.40	0.75	0.26	0.20
Hexa-	3.99	5.11	3.34	3.23	4.32	3.63	5.98	4.04	3.34	2.82
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Supplementary Table 3. Percentage of mono- to hexanucleotide P-SSRs in the introns of the primates genome

Type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
size (Mb)	689.23	1310.05	1083.36	783.89	904.98	938.95	958.15	962.14	959.90	4424.67
Mono-	71.64	65.00	64.42	63.74	65.22	65.06	61.86	63.88	63.05	61.84
Di-	9.73	17.29	14.12	15.76	13.95	14.60	14.96	14.79	15.09	15.97
Tri-	5.00	4.08	5.13	5.20	5.13	4.79	5.31	5.45	5.19	5.36
Tetra-	11.54	11.71	12.82	11.30	12.08	12.57	12.94	12.81	13.30	13.34
Penta-	1.87	1.60	3.04	3.44	3.14	2.60	4.47	2.61	2.93	2.95
Hexa-	0.23	0.33	0.47	0.56	0.48	0.37	0.47	0.45	0.43	0.54
Total	100.00	100.00	100.00	100.00	100	100.00	100.00	100.00	100.00	100.00

Supplementary Table 4. Percentage of mono- to hexanucleotide P-SSRs in the 3'UTRs of the primates genome

Type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
Size (Mb)	11.47	21.75	13.56	16.71	12.04	20.34	16.12	17.38	15.56	79.72
Mono-	73.12	62.89	64.88	69.58	69.15	69.30	61.45	69.55	64.36	62.28
Di-	13.62	22.36	20.89	14.84	12.15	16.54	22.63	15.55	20.01	19.22
Tri-	6.81	5.81	6.72	4.54	4.67	4.29	5.93	5.47	5.32	6.81
Tetra-	4.66	6.46	4.96	8.20	11.13	7.32	7.34	7.36	7.62	8.67
Penta-	1.08	2.14	1.84	2.39	2.54	2.15	2.17	1.69	2.10	2.22
Hexa-	0.72	0.35	0.71	0.45	0.37	0.40	0.49	0.39	0.59	0.79
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Supplementary Table 5. Percentage of mono- to hexanucleotide P-SSRs in the TEs of the primates genome

Type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
Size (Mb)	905.63	1257.35	1344.54	1304.33	1331.08	1321.23	1190.72	1365.45	1359.57	1367.36
Mono-	83.53	82.88	80.94	80.93	81.11	83.22	78.96	81.41	80.86	81.82
Di-	5.62	4.64	4.55	4.55	4.54	4.33	5.59	4.69	4.70	4.36
Tri-	3.87	2.63	3.47	3.48	3.42	2.91	3.57	3.28	3.16	3.07
Tetra-	6.30	8.64	8.86	8.88	8.81	7.86	9.75	8.79	9.20	8.78
Penta-	0.64	1.12	1.96	1.93	1.91	1.52	1.93	1.66	1.88	1.77
Hexa-	0.03	0.09	0.22	0.22	0.22	0.16	0.20	0.18	0.20	0.20
Total	100.00	100	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Supplementary Table 6. Percentage of mono- to hexanucleotide P-SSRs in the intergenic regions of the primates genome

Type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
size (Mb)	1718.68	1770.85	1913.80	1933.97	1936.47	1781.82	1874.75	2090.02	2213.39	1733.56
Mono-	64.41	53.56	56.13	54.35	56.24	55.10	53.97	55.38	54.35	52.11
Di-	13.98	23.94	17.74	17.81	17.25	20.07	19.68	18.62	19.57	20.17
Tri-	5.97	4.76	5.96	6.32	6.07	5.70	5.96	6.00	5.99	5.90
Tetra-	13.14	15.35	16.38	17.16	16.53	15.78	15.77	16.06	16.05	16.83
Penta-	2.24	2.01	3.26	3.75	3.36	2.93	4.10	3.42	3.52	4.34
Hexa-	0.25	0.38	0.54	0.62	0.54	0.42	0.52	0.52	0.52	0.66
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Supplementary Table 7. The AT-content in the 5'UTRs, CDSs, introns, 3'UTRs,TEs, and intergenic regions of the primates genome

Regions	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
5'UTRs	45.61	43.24	43.23	41.91	41.15	42.45	41.14	39.81	39.56	42.30
CDSs	48.48	48.45	48.47	48.00	47.88	48.51	47.87	48.00	48.07	47.86
3'UTRs	58.46	58.03	56.68	56.19	53.63	57.44	56.85	56.83	58.23	56.02
TEs	58.60	58.40	58.22	58.20	58.23	58.20	58.54	58.48	58.36	58.28
Introns	58.61	58.50	58.79	58.28	58.39	58.57	59.16	58.66	58.60	58.64
Intergenic regions	59.18	59.83	59.74	59.81	59.71	60.15	60.09	59.77	59.73	59.93

Supplementary Table 8. The AT-content (%) of mono- to hexanucleotide P-SSRs in the 5'UTRs of the primate genomes

Type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
Mono-	96.02	93.27	96.42	95.07	96.84	96.18	95.36	93.52	94.47	96.49
Di-	43.33	46.71	46.99	46.83	47.25	46.81	47.94	46.56	45.74	48.45
Tri-	12.53	12.58	12.40	12.28	10.43	12.32	12.20	10.63	7.92	11.12
Tetra-	28.77	30.99	32.48	42.36	46.34	38.19	26.39	44.78	27.40	38.62
Penta-	20.00	20.79	30.83	41.13	28.02	30.15	19.56	26.16	26.03	29.67
Hexa-	16.67	12.62	31.79	33.33	27.88	25.25	18.52	14.80	19.68	23.86
Total	26.63	32.35	37.73	49.66	42.90	46.84	32.78	40.63	29.18	33.67

^a The numbers of nucleotides in SSRs are listed. For example: the total of the nucleotides in mononucleotide SSRs are 5458214 bp, one of which have 5316524 bp A+T and 141690 bp C+G.

^b The percentage of nucleotides are shown in table.

Supplementary Table 9. The AT-content (%) of mono- to hexanucleotide P-SSRs in the CDSs of the primate genomes

Type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
Mono-	98.58	94.42	98.44	97.96	97.78	94.36	94.20	95.56	94.06	94.72
Di-	61.21	50.04	53.25	52.99	50.00	50.08	51.69	52.87	48.48	49.07
Tri-	33.50	33.41	31.69	29.85	31.33	31.35	33.07	30.49	29.45	30.89
Tetra-	65.58	57.18	65.87	60.23	53.04	48.67	61.91	50.91	53.27	49.51
Penta-	80.00	60.00	72.73	64.84	60.00	58.83	59.07	48.67	75.79	55.85
Hexa-	28.82	29.31	30.55	29.51	24.37	34.45	32.32	27.35	29.24	31.77
Total	42.19	37.74	45.40	35.99	33.05	42.59	41.21	35.18	31.21	32.08

Supplementary Table 10. The AT-content (%) of mono- to hexanucleotide P-SSRs in the introns of the primate genomes

Type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
Mono-	97.96	99.68	98.66	99.44	99.71	98.71	99.63	99.37	99.43	99.42
Di-	55.09	56.98	58.21	59.01	59.46	59.62	60.92	61.56	58.21	62.51
Tri-	63.91	64.5	71.33	73.11	66.3	70.2	68.22	70.18	68.17	69.31
Tetra-	77.07	72.04	79.38	73.19	74.61	86.02	79.89	78.61	80.8	80.17
Penta-	72	75.48	81.37	80.56	73.01	86.15	80.41	73.25	73.33	70.73
Hexa-	81.67	84.42	77.54	78.21	81.33	81.33	81.33	80.63	83.33	83.33
Total	88.72	85.1	87.13	88.2	89.25	87.19	88.31	88.72	88.91	89.28

Supplementary Table 11. The AT-content (%) of mono- to hexanucleotide P-SSRs in the 3'UTRs of the primate genomes

type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
Mono-	98.36	99.01	99.47	98.85	99.28	99.26	98.32	99.15	98.17	98.95
Di-	64.22	62.19	60.59	57.66	57.86	60.02	59.68	58.17	59.89	60.60
Tri-	50.21	55.46	57.51	65.26	64.57	64.96	62.13	63.69	62.84	58.47
Tetra-	68.64	63.37	65.77	70.40	74.95	73.52	69.47	71.82	70.76	74.48
Penta-	67.69	58.83	67.69	75.56	76.11	72.59	70.26	71.84	72.42	73.19
Hexa-	45.00	42.59	50.00	64.45	55.02	47.99	60.67	58.06	62.06	71.55
Total	86.83	82.33	84.02	86.70	87.90	86.86	82.17	86.53	83.91	83.50

Supplementary Table 12. The AT-content (%) of mono- to hexanucleotide P-SSRs in the TEs of the primate genomes

Type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
Mono-	99.56	99.81	99.67	99.67	99.67	99.86	99.74	99.82	99.76	99.86
Di-	62.94	63.24	61.33	62.33	58.33	64.41	63.82	63.95	63.72	64.76
Tri-	69.10	74.01	72.86	74.86	73.86	75.90	74.89	76.74	75.04	75.33
Tetra-	84.74	81.42	82.85	82.85	84.85	85.67	84.66	85.64	85.16	85.20
Penta-	79.35	81.08	80.16	82.60	83.60	83.08	82.44	83.15	82.91	82.64
Hexa-	73.44	78.11	78.30	79.30	80.30	83.10	82.75	83.89	84.69	82.59
Total	95.08	95.35	94.67	95.49	96.05	96.18	94.88	95.78	95.56	95.88

Supplementary Table 13. The AT-content (%) of mono- to hexanucleotide P-SSRs in the intergenic regions of the primate genomes

Type	<i>OtoGar</i>	<i>CalJac</i>	<i>MacMul</i>	<i>ChlSab</i>	<i>PapAnu</i>	<i>NomLeu</i>	<i>GorGor</i>	<i>PonAbe</i>	<i>PanTro</i>	<i>HomSap</i>
Mono-	98.69	99.32	99.65	99.43	99.56	99.64	99.63	99.42	99.13	99.62
Di-	60.67	59.45	58.37	57.00	57.90	61.96	59.80	60.69	61.59	61.99
Tri-	70.33	69.04	73.01	72.01	72.48	74.18	73.67	78.29	73.69	74.06
Tetra-	76.57	69.65	73.00	72.11	72.37	73.56	75.84	76.07	75.59	74.18
Penta-	74.73	69.28	79.80	78.71	78.73	77.96	73.16	79.44	78.56	74.12
Hexa-	65.26	62.37	71.12	72.09	69.03	69.66	67.03	68.32	71.12	64.18
Total	86.82	79.83	83.56	82.59	83.51	83.69	88.36	84.61	83.96	82.65