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Data Article

Data of 10 SSR markers for genomes of homo sapiens and monkeys



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ABSTRACT

In this data, we present 10 Simple Sequence Repeat(SSR) markers TAGA, TCAT, GAAT, AGAT, AGAA, GATA, TATC, CTTT, TCTG and TCTA which are extracted from the genomes of homo sapiens and monkeys using string matching mechanism [1]. All loci showed 4 Base Pair(bp) in allele size, indicating that there are some polymorphisms between individuals correlating to the number of SSR repeats that maybe useful for the detection of similarity among the genotypes. Collectively, these data show that the SSR extraction is a valuable method to illustrate genetic variation of genomes.

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Specifications Table

| Subject area | Bio-informatics |
|---------------|---|
| More specific | Genomes of homo sapiens and monkeys |
| subject area | |
| Type of data | Tables, figures |
| How data was | SSR markers extraction with string matching |
| acquired | |
| Data format | Analyzed |

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| 288 | K.K.V.V.S. Reddy et al. / Data in Brief 12 (2017) 287-304 |
|-------------------------|---|
| Experimental factors | Ten SSR motifs: <i>TAGA, TCAT, GAAT, AGAT, AGAA, GATA, TATC, CTTT, TCTG, TCTA</i> were targeted. String matching process is applied on genomes of homo sapiens and monkeys. 10 SSR markers to be used in various detection purposes are extracted with this approach. |
| Experimental features | Each of the 10 SSR markers are extracted from genomes of homo sapiens and monkeys. All the 10 SSRs showed the 4 bp in allele size. These differences showed that there are some polymorphisms among the genomes to the number of SSR repeats. |
| Data source location | BHIMAVARAM, INDIA |
| Data accessibility | The data is provided with this article |

Value of the data

- Data sets obtained from genomes of homo sapiens and monkeys with string matching have shown the high specificity.
- These data suggest that SSR extraction is an useful method for providing information for various detections.
- Access to the raw sequencing data allows researchers to perform further bio-informatics analysis based on their own computational algorithms.

1. Data

10 SSR markers data which were extracted from genomes of Homo sapiens and Monkeys are shown in Table 1. The data presented here shows that the SSR extraction with string matching was very useful and was able to reveal variation of selected genome collections. These SSR markers can be

Table 1

Genome sequences used to extract 10 SSRs.

| Genome set | Number of chromosomes | | Total Number of Tandem Repeats extracted(\geq 3) |
|------------------------|--|------|---|
| Homo sapiens | 1 to 22, MT, X, Y and Un | (26) | 12,83,780 |
| Callithrix jacchus | 1 to 22, X, Y and Un | (25) | 12,21,444 |
| Chlorocebus sabaeus | 1 to 29, MT, X, Y and Un | (33) | 12,48,422 |
| Gorilla gorilla | 1, 2A, 2B, 3 to 22, MT, X and Un | (26) | 12,23,871 |
| Macaca fascicularis | 1 to 20, MT, X and Un | (23) | |
| Macaca mulatta | 1 to 20, MT, X and Un | (23) | 13,73,963 |
| Nomascus leucogenys | 1 to 6, 7b, 8 to 21, 22a, 23 to 25, X and Un | (27) | 12,77,214 |
| Pan troglodytes | 1, 2A, 2B, 3 to 22, MT, X, Y and Un | (27) | 13,07,857 |
| Papio anubis | 1 to 20, MT, X and Un | (23) | 13,97,131 |
| Pongo abelli | 1, 2 A, 2B, 3 to 22, MT, X and Un | (26) | 13,88,580 |
| 10 | | 259 | |

| | callithrix_ | jacchus | chlorocebu | s_sabaeus | gorilla_go | orilla | homo_sa | piens | macaca_fa | scicularis |
|--|--|---|--|---|--|--|--|---|--|--|
| SSRs TAGA | COUNT 54,367 | % 4.451 | COUNT 54,232 | % 4.344 | COUNT 55,032 | % 4.497 | COUNT 58,515 | % 4.558 | COUNT 55,120 | % 5.317 |
| TCAT GAAT AGAT AGAA GATA TATC CTTT TCTG | 126,046 125,571 63,639 321,541 50,436 49,457 287,856 88,988 | 10.319 10.281 5.21 26.325 4.129 4.049 23.567 7.285 | 129,348 117,580 64,076 337,172 52,584 52,797 298,314 87,457 | 10.361 9.418 5.133 27.008 4.212 4.229 23.895 7.005 | 129,579 118,095 64,223 310,953 51,171 51,226 299,737 88,578 | 10.588 9.649 5.248 25.407 4.181 4.186 24.491 7.238 | 134,401 121,219 67,609 335,774 55,215 55,039 308,980 88,741 | 10.469 9.442 5.266 26.155 4.301 4.287 24.068 6.912 | 132,756 117,725 65,799 383,090 54,609 53,195 31,032 88,352 | 12.805 11.355 6.347 36.952 5.267 5.131 2.993 8.522 |
| TCTA | 53,543 | 4.384 | 54,862 | 4.395 | 55,277 | 4.517 | 58,287 | 4.54 | 55,054 | 5.31 |
| | macaca_n | nulatta | nomascus_ | leucogenys | pan_troglodytes | | papio_anubis | | pongo_abelli | |
| TAGA TCAT GAAT AGAA GATA TATC CTTT TCTG TCTA | 54,654 1,34,711 1,16,768 65,013 4,49,811 53,996 53,017 3,03,431 88,096 54,466 | 3.978 9.805 8.499 4.732 32.738 3.93 3.859 22.084 6.412 3.964 | 54,717 1,26,881 1,14,940 65,910 3,80,618 51,364 52,187 2,91,064 84,650 54,883 | 4.284 9.934 8.999 5.16 29.801 4.022 4.086 22.789 6.628 4.297 | 59,396 1,36,356 1,23,903 68,038 3,36,976 55,328 55,105 3,23,374 90,206 59,175 | 4.541 10.426 9.474 5.202 25.766 4.23 4.213 24.725 6.897 4.525 | 54,448 1,34,481 1,17,843 65,048 4,64,606 54,073 54,145 3,06,628 91,306 54,553 | 3.897 9.626 8.435 4.656 33.254 3.87 3.875 21.947 6.535 3.905 | 63,842 1,45,074 1,35,533 72,684 3,57,409 59,092 59,296 3,32,502 98,098 65,050 | 4.598 10.448 9.761 5.234 25.739 4.256 4.27 23.945 7.065 4.685 |

 Table 2

 10 SSRs successive occurrences for all chromosomes of homo sapiens and monkeys.

used to assess maternity, paternity, personal and theft identifications. All chromosomes of *Homo* sapiens and monkeys (Callithrix jacchus, Chlorocebus sabaeus, Gorilla gorilla,Macaca fascicularis, Macacamulatta, Nomascus leucogenys, Pan troglodytes, Papio anubis and Pongo abelli) are considered for the extraction of the 10 SSR markers which are shown in Table 1 [1].

1.1. 10 SSR markers overall count in homo sapiens and monkeys

Table 2 shows the 10 SSRs overall count of Callithrix jacchus, Chlorocebus sabaeus, Gorilla gorilla, Homo sapiens, Macaca fascicularis, Macacamulatta, Nomascus leucogenys, Pan troglodytes, Papio anubis and Pongo abelli respectively.

Fig. A1 (presented in Appendix A (figures part) from A1(a) to (e)) shows the successive occurrence percentage of 10 SSRs for all chromosomes of *Callithrix jacchus*, *Chlorocebus sabaeus*, *Gorilla gorilla*, *Homo sapiens*, *Macaca fascicularis*, *Macacamulatta*, *Nomascus leucogenys*, *Pan troglodytes*, *Papio anubis and Pongo abelli*.

1.2. Position and MAX number of occurrences of 10 SSRs for each chromosome of homo sapiens and monkeys

Table A1 shows (presented in Appendix A (tables part)) the 10 SSRs position and MAX number of occurrences for each chromosome of *Callithrix jacchus*, *Chlorocebus sabaeus*, *Gorilla gorilla*, *Homo sapiens*, *Macaca fascicularis*, *Macacamulatta*, *Nomascus leucogenys*, *Pan troglodytes*, *Papio anubis and Pongo abelli respectively*.

1.3. Data for all the chromosomes of homo sapiens and monkeys for every 10 SSR count

Tables A2–A11 show (presented in Appendix A (tables part)) every SSR count for all chromosome of Callithrix jacchus, Chlorocebus sabaeus, Gorilla gorilla, Homo sapiens, Macaca fascicularis, Macaca-mulatta, Nomascus leucogenys, Pan troglodytes, Papio anubis and Pongo abelli respectively.

Fig. A2 shows (presented in Appendix A (figure part) from A1(a) to A2(e)) the each SSRs percentage of all chromosomes of *Callithrix jacchus*, *Chlorocebus sabaeus*, *Gorilla gorilla*, *Homo sapiens*, *Macaca fascicularis*, *Macacamulatta*, *Nomascus leucogenys*, *Pan troglodytes*, *Papio anubis and Pongo abelli*.

2. Experimental design, materials and methods

2.1. SSR extraction

In this paper all chromosomes of homo sapiens and monkeys(Callithrix jacchus, Chlorocebus sabaeus, Gorilla gorilla,Macaca fascicularis, Macacamulatta, Nomascus leucogenys, Pan troglodytes, Papio anubis and Pongo abelli) and the ten(TAGA, AGAA, GATA, TCTA, TCAT, GAAT, AGAT, CTTT, TATC, TCTG) SSRs are considered. SSRs are extracted from homo sapiens and monkeys using string matching approach. The string matching is a searching mechanism that searches the repeats in a given chromosomal file.

Search process: The chromosomes and SSRs are given to main function, then the main function calls the shift process by providing right most character of the SSRs. The shift position is returned to main function by the shift process. The search process compares character by character from both the directions until a complete match or mismatch occurs. If match occurs the successive occurrence of the pattern is searched. If the successive occurrence size is greater than 1 then the data is stored in database [1]. This process is continued for all the SSRs and for entire data in the chromosomes. The detailed description is given in [1].

2.2. Paternity identification with similarity measures [2]

In cases related to paternity tests, two or more persons might claim that a child is their biological son/daughter. In such cases, the genome sequence of the child as well as the persons can be compared to identify the similarity of the loci that is stored in the Tandem Repeat Database(TandemRepeatDB). The person having more similarity of the loci with the child DNA will be considered to be the actual biological father/mother.

Procedure:

Table 3

- Genome sequence of the child as well as the persons(A and B) is taken.
- The continuously occurred 10 loci's from child and persons (A and B) are extracted and stored in TandemRepeatDB using multiple pattern multiple(2^N) shaft parallel string matching algorithms [3].
- The loci from *TandemRepeatDB* are extracted.
- Correlation coefficient, Rank correlation coefficient and Cosine similarity measures are applied to measure the similarity between loci of child and persons(A and B).

| Child vs | Correlation Coefficient | Rank Correlation Coefficient | Cosine Similarity |
|----------|-------------------------|------------------------------|-------------------|
| Person A | 1 | 1 | 1 |
| Person B | 0.22 | 0.24 | 0.21 |

| Evample | of | cimilarity | botwoon | child | and | norconc | () | and | D) |
|-----------|----|---------------|---------|--------|-----|-----------|-----|-----|-----|
| CXAIIIDIE | υı | SIIIIIIdiitty | Detween | CHIIIG | anu | Dersons | 1 M | anu | D). |
| | | | | | | r · · · · | · | | |

- Similarity measures return the percentage of similarity between the loci of child and persons (A and B).
- Using the similarity percentage, the similarity can be noticed in both the positive and negative terms.

Example of similarity between child and persons (A and B) is shown in Table 3.

In Table 3, correlation coefficient, rank correlation coefficient and cosine similarity measures show a positive correlation (1) between the child and person A, whereas between the child and person B show a positive correlation for all the three measures but it is very low compared to child and person A.

2.3. DNA finger printing

Performing pattern search in the entire genome of an organism in traditional approach i.e., using laboratory experiments is very time consuming. Even for a small part of a genome, the process will take several hours, moreover the related laboratory experiments are quite expensive. Due to the latest developments in genome sequencing, in the near future, a person can get their entire genome sequenced in a diagnostics centre just like the medical diagnostics. In this situation, the *multiple pattern multiple*(2^N) shaft parallel string matching algorithms [3] will play a key role to search the loci in the person's genome and will return the occurrence positions, chromosome name, loci name etc., in a quick time and at no cost.

DNA finger printing—It is a method used to identify an individual from sample genome sequence by searching the patterns in the locations on all chromosomes.

DNA finger printing procedure:

- Genome sequences of one family members (father, mother, daughters and sons) are considered.
- The 10 loci in all the family members genomes are searched using multiple pattern multiple(2^N) shaft parallel string matching algorithms [3].
- If exact match occurs then successive logic is applied.
- If successive occurrence of the loci is found then its sample name, position, chromosome name, pattern and number of times of occurrence related to all family members genomes are stored in TandemRepeatDB [1]
- The loci of all family members are extracted from *TandemRepeatDB*, their position, chromosome name, pattern and number of times of occurrence is compared.
- If they are matched then where the genomes of father and mother are matched to their child are shown.

Appendix A

See Appendix Figs. A1 and A2 and Tables A1-A11 here.





Successive occurrences percentage of 10 SSRs for all chromosomes of homo sapiens and monkeys

Fig. A1. (a). Successive occurrences percentage of 10 SSRs for all chromosomes of homo sapiens and monkeys (b). Successive occurrences percentage of 10 SSRs for all chromosomes of homo sapiens and monkeys (c). Successive occurrences percentage of 10 SSRs for all chromosomes of homo sapiens and monkeys (d). Successive occurrences percentage of 10 SSRs for all chromosomes of homo sapiens and monkeys (e). Successive occurrences percentage of 10 SSRs for all chromosomes of homo sapiens and monkeys (e). Successive occurrences percentage of 10 SSRs for all chromosomes of homo sapiens and monkeys (e). Successive occurrences percentage of 10 SSRs for all chromosomes of homo sapiens and monkeys.



Fig. A1. (continued)



Fig. A1. (continued)







Each SSRs percentage of all chromosomes of homo sapiens and monkeys

Fig. A2. (a). Each SSRs percentage of all chromosomes of homo sapiens and monkeys (b). Each SSRs percentage of all chromosomes of homo sapiens and monkeys (c). Each SSRs percentage of all chromosomes of homo sapiens and monkeys (d). Each SSRs percentage of all chromosomes of homo sapiens and monkeys (e). Each SSRs percentage of all chromosomes of homo sapiens and monkeys.



Each SSRs percentage of all chromosomes of homo sapiens and monkeys

Fig. A2. (continued)



Fig. A2. (continued)

Table A1

The 10 SSRs position and MAX number of occurrences for each chromosome of homo sapiens and monkeys.

| | callithri | x_jacchus | | chloroc | ebus_sabaeus | | gorilla_gorilla | | | |
|------|--------------|-----------|----------------|--------------|---------------|----------------|-----------------|-----------|----------------|--|
| SSRs | Chr. Name | Position | MAX No.occ. | Chr. Name | Position | MAX No.occ. | Chr. Name | Position | MAX No.occ. | |
| TAGA | chr3 | 79735472 | 21 | chr21 | 6186496 | 19 | chr15 | 38646887 | 19 | |
| | | | | chr7 | 104177388 | 19 | chr3 | 191310396 | 19 | |
| | | | | | | | chr6 | 67454746 | 19 | |
| TCAT | chr4 | 2828416 | 14 | chr22 | 79937353 | 14 | chr14 | 42977818 | 14 | |
| GAAT | chr16 | 10668381 | 13 | chr6 | 37074500 | 14 | chr1 | 19404908 | 12 | |
| | | | | | | | chr1 | 38217247 | 12 | |
| | | | | | | | chr1 | 52534114 | 12 | |
| | | | | | | | chr10 | 118648631 | 12 | |
| | | | | | | | chr11 | 21903713 | 12 | |
| | | | | | | | chr4 | 92024092 | 12 | |
| | | | | | | | chr6 | 41503923 | 12 | |
| | | | | | | | chr6 | 71087014 | 12 | |
| | | | | | | | chr6 | 168203280 | 12 | |
| | | | | | | | chr8 | 132267085 | 12 | |
| AGAT | chr3 | 79735473 | 21 | chr21 | 6186493 | 20 | chr15 | 38646884 | 20 | |
| | | | | | | | chr6 | 67454743 | 20 | |
| AGAA | chr18 | 5525740 | 57 | chr14 | 8606607 | 54 | chr3 | 164366107 | 41 | |
| GATA | chr3 | 79735474 | 20 | chr21 | 6186494 | 20 | chr15 | 38646885 | 20 | |
| TATC | chr1 | 193890637 | 18 | chr20 | 32463615 | 20 | chr10 | 93616477 | 26 | |
| | chr10 | 89477523 | 18 | | | | | | | |
| | chrX | 35314334 | 18 | | | | | | | |
| CTTT | chr7 | 13494352 | 51 | chr13 | 12914036 | 42 | chrUn | 33064271 | 66 | |
| TCTG | chr12 | 116706355 | 14 | chr6 | 39751979 | 14 | chr12 | 65943038 | 16 | |
| TCTA | chr10 | 89477521 | 18 | chr11 | 17593555 | 20 | chr10 | 93616475 | 26 | |
| | chrX | 35314332 | 18 | chr20 | 32463617 | 20 | | | | |
| | | | | chr13 | 12914036 | 42 | | | | |
| | homo_s | apiens | | macaca | _fascicularis | | macaca | _mulatta | | |
| TAGA | chr6 | 78744943 | 21 | chr8 | 68082659 | 29 | chr1 | 102404825 | 31 | |
| TCAT | chr18 | 19040969 | 12 | chr3 | 70869451 | 19 | chr11 | 121369418 | 19 | |

Table A1 (continued)

| | callithrix | jacchus | | chloroc | ebus_sabaeus | | gorilla_ | gorilla | |
|-------|---------------|-----------------------|----------------|--------------|--------------|----------------|--------------|-----------|----------------|
| SSRs | Chr. Name | Position | MAX No.occ. | Chr. Name | Position | MAX No.occ. | Chr. Name | Position | MAX No.occ. |
| GAAT | chr19 chr7 | 5705151 24447326 | 12 12 | chr12 | 9903931 | 14 | chr1 | 207627818 | 15 |
| | | | | chr9 | 130094610 | 14 | | | |
| АСАТ | chr6 | 79744044 | 21 | chrX | 125482762 | 14 | chr1 | 102404826 | 21 |
| AGAI | chr1 | 78744944 50152850 | 21 42 | chr6 | 30665766 | 20 218 | chr1 | 208426061 | 21 84 |
| 10/01 | chr2 | 202039752 | 42 | ciiro | 50005700 | 210 | | 200420501 | 04 |
| GATA | chr6 | 78744941 | 22 | chr8 | 68082657 | 29 | chr1 | 102404827 | 31 |
| TATC | chrX | 2745391 | 25 | chr2 | 190939258 | 33 | chr2 | 145642434 | 21 |
| CTTT | chr1 | 183001776 | 78 | chr7 | 135702116 | 221 | chr17 | 31653528 | 79 |
| TCTG | chr16 | 6958183 | 12 | chr1 | 183808952 | 16 | chr15 | 16587493 | 12 |
| | chr3 | 128159380 | 12 | | | | chr8 | 106806405 | 12 |
| | chr6 | 42209966 | 12 | | | | | | |
| | chrX | 33066905 | 12 | | | | | | |
| TCTA | chrX | 2745393 | 25 | chr2 | 190939260 | 33 | chr11 | 139206709 | 21 |
| | | | | | | | chr2 | 145642432 | 21 |
| | nomascu | s leucogenys | | pan tro | glodytes | | papio a | | |
| TAGA | chr17 | 99694422 | 17 | chr22 | 18705754 | 17 | chr15 | 67841064 | 31 |
| | chr20 | 37429530 | 17 | chr4 | 114121219 | 17 | | | |
| | chrX | 134452351 | 17 | chr7 | 30208909 | 17 | | | |
| | | | | chr8 | 117565722 | 17 | | | |
| TCAT | chr11 | 76660754 | 12 | chr11 | 66703196 | 10 | chr3 | 35336353 | 15 |
| | | | | chr5 | 81454376 | 10 | | | |
| | | | | chr5 | 98961452 | 10 | | | |
| | | | | chr5 | 146242524 | 10 | | | |
| СААТ | chr0 | 107260456 | 11 | chr9 | 103588094 | 10 | chr20 | 61270906 | 14 |
| | chr20 | 37/20531 | 11 | chr7 | 30208006 | 11 | chr15 | 678/1061 | 14 22 |
| AGAA | chr11 | 110907513 | 52 | chr12 | 112420396 | 43 | chr16 | 45124738 | 54 |
| GATA | chr20 | 37429532 | 17 | chr7 | 30208907 | 18 | chr15 | 67841062 | 31 |
| | | | | chr8 | 117565720 | 18 | | | |
| TATC | chr18 | 90384956 | 23 | chr3 | 85098744 | 19 | chr1 | 42020452 | 21 |
| CTTT | chr11 | 71987795 | 33 | chr11 | 122385983 | 30 | chr19 | 41169691 | 47 |
| TCTG | Chr22a | 98163100 | 13 | chr22 | 6919111 | 13 | chr1 | 145463529 | 15 |
| TCTA | chr18 | 90384958 | 22 | chr3 | 85098746 | 18 | chr2 | 91114291 | 22 |
| | pongo a | belli | | | | | | | |
| TAGA | chr10 | 51304347 | 20 | | | | | | |
| TCAT | chr20 | 37504198 | 12 | | | | | | |
| GAAT | chr14 | 51525042 | 13 | | | | | | |
| AGAT | chr10 | 51304348 | 20 | | | | | | |
| AGAA | chr9 | 86034594 | 37 | | | | | | |
| GATA | chr10 | 51304349 | 19 | | | | | | |
| TATC | chr4 | 171960662 | 19 | | | | | | |
| CITT | chr16 | 13498905 | 63 | | | | | | |
| ICIG | chr2B | 108490608 | 11 | | | | | | |
| тста | chr2A | 129069040 17115225 | 11 | | | | | | |
| щл | chr4 | 171960664 | 10 | | | | | | |
| | 0114 | 171500004 | 10 | | | | | | |

 Table A2

 The 10 SSR counts for all the chromosomes of callithrix_jacchus.

| | TAGA | TCAT | GAAT | AGAT | AGAA | GATA | TATC | СТТТ | TCTG | TCTA |
|-------|------|------|------|------|-------|------|------|-------|------|------|
| chr1 | 4120 | 9491 | 9433 | 4815 | 23363 | 3818 | 3754 | 20746 | 6704 | 4079 |
| chr2 | 4028 | 9127 | 9149 | 4663 | 24108 | 3678 | 3693 | 20964 | 6155 | 4071 |
| chr3 | 4363 | 9031 | 9048 | 4821 | 23465 | 3975 | 3798 | 20736 | 5322 | 4158 |
| chr4 | 3394 | 7768 | 7769 | 3764 | 20392 | 3012 | 3048 | 17926 | 5143 | 3306 |
| chr5 | 2469 | 6441 | 6405 | 2908 | 16343 | 2227 | 2156 | 15126 | 5301 | 2409 |
| chr6 | 2952 | 7086 | 6983 | 3524 | 18332 | 2808 | 2802 | 16372 | 4644 | 2985 |
| chr7 | 2838 | 7093 | 7017 | 3365 | 16919 | 2666 | 2396 | 15474 | 4874 | 2553 |
| chr8 | 2475 | 5641 | 5654 | 3024 | 14685 | 2426 | 2310 | 12851 | 3785 | 2444 |
| chr9 | 2306 | 5439 | 5431 | 2797 | 13781 | 2215 | 2233 | 12650 | 3952 | 2381 |
| chr10 | 2396 | 5715 | 5668 | 2803 | 14578 | 2109 | 2138 | 12965 | 4198 | 2276 |
| chr11 | 2355 | 5836 | 5888 | 2848 | 14173 | 2160 | 2199 | 12457 | 4378 | 2376 |
| chr12 | 1992 | 5126 | 5036 | 2343 | 12582 | 1854 | 1786 | 11634 | 4184 | 1904 |
| chr13 | 2223 | 5165 | 4983 | 2660 | 13253 | 2116 | 2054 | 12027 | 3514 | 2235 |
| chr14 | 2010 | 4807 | 4598 | 2403 | 12301 | 1843 | 1828 | 11178 | 3408 | 2104 |
| chr15 | 1768 | 4616 | 4399 | 2046 | 11082 | 1597 | 1565 | 9921 | 3129 | 1777 |
| chr16 | 2059 | 4688 | 4711 | 2402 | 11486 | 1952 | 2002 | 10173 | 2850 | 2075 |
| chr17 | 1427 | 3453 | 3483 | 1729 | 8742 | 1374 | 1301 | 7693 | 2212 | 1469 |
| chr18 | 893 | 2115 | 2086 | 1019 | 5632 | 829 | 819 | 4800 | 1459 | 851 |
| chr19 | 857 | 2232 | 2169 | 992 | 5539 | 798 | 748 | 5124 | 1640 | 819 |
| chr20 | 905 | 1967 | 2020 | 939 | 4638 | 730 | 637 | 4499 | 1661 | 691 |
| chr21 | 1137 | 2280 | 2135 | 1291 | 6081 | 1049 | 1077 | 5285 | 1466 | 1211 |
| chr22 | 588 | 1481 | 1451 | 685 | 4427 | 516 | 540 | 4156 | 1739 | 587 |
| chrUn | 1249 | 2896 | 3208 | 1688 | 8391 | 1112 | 1258 | 8088 | 2890 | 1441 |
| chrX | 3489 | 6442 | 6724 | 4021 | 16932 | 3492 | 3282 | 14723 | 4261 | 3303 |
| chrY | 74 | 110 | 123 | 89 | 316 | 80 | 33 | 288 | 119 | 38 |

Table A3

The 10 SSR counts for all the chromosomes of chlorocebus_sabaeus.

| | TAGA | TCAT | GAAT | AGAT | AGAA | GATA | TATC | СТТТ | TCTG | TCTA |
|-------|------|------|------|------|-------|------|------|-------|------|------|
| chr1 | 2388 | 6038 | 5637 | 2858 | 14992 | 2476 | 2281 | 13005 | 4118 | 2353 |
| chr2 | 1585 | 4194 | 3852 | 1882 | 10256 | 1513 | 1538 | 9278 | 3129 | 1602 |
| chr3 | 2080 | 4689 | 4053 | 2305 | 11168 | 1920 | 1985 | 9711 | 2692 | 2048 |
| chr4 | 2099 | 4293 | 3853 | 2392 | 13253 | 1875 | 1938 | 10432 | 2667 | 2029 |
| chr5 | 1202 | 3341 | 3125 | 1419 | 9061 | 1148 | 1109 | 8132 | 2644 | 1223 |
| chr6 | 724 | 1759 | 1527 | 813 | 5192 | 658 | 663 | 5090 | 1856 | 686 |
| chr7 | 3073 | 6687 | 6048 | 3644 | 17595 | 3013 | 2969 | 15238 | 3645 | 3119 |
| chr8 | 2893 | 6815 | 6134 | 3528 | 17227 | 3036 | 2686 | 15312 | 4313 | 2797 |
| chr9 | 2278 | 5831 | 5284 | 2726 | 15660 | 2181 | 2188 | 14041 | 4234 | 2309 |
| chr10 | 2637 | 6137 | 5500 | 3087 | 15639 | 2434 | 2472 | 13986 | 3849 | 2617 |
| chr11 | 2464 | 6096 | 5790 | 2989 | 15189 | 2401 | 2372 | 13848 | 4074 | 2573 |
| chr12 | 2094 | 4979 | 4507 | 2491 | 12692 | 2021 | 1967 | 11296 | 3569 | 1964 |
| chr13 | 2046 | 4727 | 4241 | 2291 | 12300 | 1859 | 1998 | 10776 | 2793 | 2035 |
| chr14 | 1941 | 4941 | 4420 | 2317 | 12821 | 1966 | 1818 | 11233 | 3464 | 2080 |
| chr15 | 1809 | 4455 | 3975 | 2224 | 11229 | 1800 | 1778 | 10315 | 2706 | 1875 |
| chr16 | 1070 | 2782 | 2672 | 1286 | 8267 | 1005 | 1010 | 7561 | 2630 | 1117 |
| chr17 | 1448 | 3279 | 2975 | 1646 | 8568 | 1361 | 1341 | 8082 | 2178 | 1466 |
| chr18 | 1415 | 3424 | 3117 | 1627 | 8611 | 1393 | 1385 | 7549 | 2195 | 1442 |
| chr19 | 427 | 1293 | 1195 | 511 | 3062 | 386 | 354 | 2907 | 1248 | 370 |
| chr20 | 2302 | 6231 | 5876 | 2926 | 15377 | 2236 | 2156 | 13802 | 4564 | 2256 |
| chr21 | 2560 | 5998 | 5495 | 3119 | 15798 | 2437 | 2453 | 13706 | 3769 | 2630 |
| chr22 | 1958 | 4754 | 4522 | 2318 | 11758 | 1857 | 1922 | 10759 | 3159 | 2035 |
| chr23 | 1591 | 4130 | 3641 | 1859 | 9754 | 1553 | 1515 | 8865 | 2629 | 1617 |
| chr24 | 1662 | 3975 | 3616 | 1968 | 9626 | 1515 | 1467 | 9175 | 2717 | 1567 |
| chr25 | 1664 | 4086 | 3766 | 1906 | 10752 | 1577 | 1701 | 9469 | 2708 | 1751 |
| chr26 | 974 | 2491 | 2280 | 1127 | 6141 | 910 | 911 | 5779 | 1921 | 1009 |
| chr27 | 1085 | 2421 | 2252 | 1256 | 6014 | 1029 | 1006 | 5169 | 1439 | 999 |
| chr28 | 384 | 807 | 703 | 449 | 2604 | 370 | 440 | 2276 | 737 | 415 |
| chr29 | 437 | 1043 | 885 | 506 | 2987 | 424 | 446 | 2410 | 759 | 435 |
| chrMT | | 1 | | | 1 | | 1 | | | 1 |
| chrUn | 477 | 548 | 419 | 534 | 4762 | 688 | 1164 | 2534 | 493 | 695 |
| chrX | 3287 | 6802 | 6007 | 3851 | 17890 | 3349 | 3581 | 15800 | 4278 | 3568 |
| chrY | 178 | 301 | 213 | 221 | 926 | 193 | 182 | 778 | 280 | 179 |

Table A4The 10 SSR counts for all the chromosomes of gorilla_gorilla.

| | TAGA | TCAT | GAAT | AGAT | AGAA | GATA | TATC | СТТТ | TCTG | TCTA |
|-------|------|-------|------|------|-------|------|------|-------|------|------|
| chr1 | 4108 | 10443 | 9603 | 4753 | 23769 | 3742 | 3842 | 21773 | 6957 | 3964 |
| chr2A | 2055 | 4804 | 4254 | 2322 | 11643 | 1798 | 1868 | 10967 | 3289 | 1945 |
| chr2B | 2634 | 6026 | 5603 | 3051 | 14902 | 2402 | 2348 | 13264 | 3844 | 2504 |
| chr3 | 3877 | 9278 | 8506 | 4334 | 21974 | 3577 | 3657 | 19894 | 5805 | 3895 |
| chr4 | 4171 | 9255 | 8315 | 4846 | 21606 | 3974 | 3951 | 19205 | 4955 | 4106 |
| chr5 | 2874 | 7092 | 6414 | 3289 | 17005 | 2581 | 2701 | 15865 | 5038 | 2857 |
| chr6 | 3363 | 7748 | 7087 | 3975 | 19327 | 3124 | 3072 | 17172 | 4867 | 3374 |
| chr7 | 2928 | 6835 | 6231 | 3377 | 16910 | 2739 | 2734 | 16419 | 4404 | 2857 |
| chr8 | 2820 | 6767 | 6128 | 3411 | 16193 | 2813 | 2626 | 14573 | 4179 | 2805 |
| chr9 | 2150 | 5177 | 4864 | 2427 | 12210 | 1910 | 1945 | 13716 | 3639 | 2088 |
| chr10 | 2409 | 5988 | 5448 | 2676 | 14344 | 2217 | 2115 | 17363 | 4769 | 2987 |
| chr11 | 2385 | 6066 | 5625 | 2856 | 13794 | 2248 | 2319 | 12882 | 4268 | 2488 |
| chr12 | 2471 | 6055 | 5671 | 2981 | 14649 | 2408 | 2325 | 13783 | 3930 | 2501 |
| chr13 | 2174 | 4798 | 4116 | 2413 | 10861 | 1971 | 1962 | 9747 | 2688 | 2087 |
| chr14 | 1597 | 4042 | 3637 | 1933 | 9116 | 1549 | 1522 | 8931 | 2716 | 1538 |
| chr15 | 1360 | 3429 | 3036 | 1508 | 8006 | 1215 | 1242 | 7328 | 2409 | 1366 |
| chr16 | 1190 | 3446 | 3101 | 1404 | 7580 | 1127 | 1157 | 7755 | 2798 | 1282 |
| chr17 | 1869 | 4008 | 3720 | 2127 | 10480 | 1754 | 1716 | 9335 | 2653 | 1877 |
| chr18 | 1674 | 3427 | 3165 | 1802 | 8645 | 1471 | 1463 | 12163 | 2401 | 1571 |
| chr19 | 599 | 1752 | 1513 | 735 | 4961 | 589 | 585 | 4823 | 1836 | 685 |
| chr20 | 955 | 2729 | 2498 | 1086 | 5935 | 855 | 909 | 8050 | 2116 | 924 |
| chr21 | 802 | 1528 | 1346 | 882 | 3918 | 705 | 662 | 3339 | 1067 | 738 |
| chr22 | 403 | 1335 | 1286 | 483 | 2940 | 404 | 389 | 2566 | 1281 | 401 |
| chrMT | | 3 | | | | | | 1 | | 2 |
| chrUn | 778 | 787 | 840 | 1604 | 2542 | 528 | 534 | 2704 | 2297 | 791 |
| chrX | 3386 | 6761 | 6088 | 3948 | 17643 | 3470 | 3582 | 16119 | 4372 | 3644 |
| | | | | | | | | | | |

| Table A5 |
|--|
| The 10 SSR counts for all the chromosomes of homo_sapiens. |

| | | | | - | | | | | | |
|-------|------|-------|-------|------|-------|------|------|-------|------|------|
| | TAGA | TCAT | GAAT | AGAT | AGAA | GATA | TATC | CTTT | TCTG | ТСТА |
| chr1 | 4385 | 10928 | 10062 | 5083 | 25987 | 4016 | 4104 | 23464 | 7167 | 4258 |
| chr2 | 4898 | 11132 | 9911 | 5595 | 27772 | 4439 | 4465 | 25243 | 7334 | 4596 |
| chr3 | 4073 | 9446 | 8601 | 4549 | 23020 | 3773 | 3731 | 20670 | 5858 | 3995 |
| chr4 | 4299 | 9393 | 8513 | 4946 | 22740 | 4138 | 4118 | 20193 | 5059 | 4316 |
| chr5 | 3864 | 8541 | 7658 | 4449 | 21362 | 3557 | 3558 | 19007 | 5358 | 3914 |
| chr6 | 3447 | 7963 | 7123 | 4021 | 20548 | 3254 | 3207 | 18297 | 4927 | 3462 |
| chr7 | 3076 | 7173 | 6480 | 3596 | 18774 | 2904 | 2979 | 18061 | 4609 | 3115 |
| chr8 | 3072 | 6837 | 6262 | 3610 | 17958 | 2991 | 2784 | 15811 | 4241 | 2990 |
| chr9 | 2294 | 5498 | 5063 | 2583 | 13365 | 2034 | 2179 | 12119 | 3710 | 2279 |
| chr10 | 2442 | 6037 | 5365 | 2810 | 14966 | 2321 | 2216 | 13720 | 4268 | 2473 |
| chr11 | 2471 | 6290 | 5812 | 3021 | 15318 | 2449 | 2452 | 13998 | 4455 | 2665 |
| chr12 | 2603 | 6126 | 5751 | 3079 | 15686 | 2512 | 2462 | 14606 | 3975 | 2610 |
| chr13 | 2214 | 4820 | 4182 | 2491 | 11360 | 2039 | 2071 | 10206 | 2680 | 2181 |
| chr14 | 1708 | 4202 | 3740 | 2064 | 9834 | 1618 | 1644 | 9566 | 2752 | 1706 |
| chr15 | 1498 | 3618 | 3196 | 1676 | 8709 | 1355 | 1315 | 8057 | 2515 | 1480 |
| chr16 | 1282 | 3638 | 3348 | 1500 | 8440 | 1214 | 1228 | 8551 | 2821 | 1334 |
| chr17 | 1204 | 3003 | 2750 | 1417 | 8205 | 1105 | 1129 | 7997 | 2606 | 1207 |
| chr18 | 1574 | 3520 | 3238 | 1856 | 8825 | 1536 | 1512 | 8110 | 2261 | 1609 |
| chr19 | 725 | 2197 | 1693 | 889 | 6402 | 685 | 696 | 6179 | 2001 | 763 |
| chr20 | 887 | 2741 | 2515 | 1078 | 6218 | 859 | 948 | 6151 | 2117 | 949 |
| chr21 | 868 | 1596 | 1419 | 942 | 4306 | 817 | 767 | 3704 | 1112 | 802 |
| chr22 | 484 | 1433 | 1329 | 575 | 3278 | 462 | 423 | 2981 | 1313 | 432 |
| chrMT | | 3 | | | | | | 1 | | 1 |
| chrUn | 91 | 168 | 112 | 65 | 414 | 57 | 42 | 1224 | 241 | 105 |
| chrX | 3900 | 7028 | 6199 | 4451 | 18805 | 3938 | 3892 | 17067 | 4465 | 3964 |
| chrY | 1156 | 1070 | 897 | 1263 | 3482 | 1142 | 1117 | 3997 | 896 | |
| | | | | | | | | | | |

 Table A6

 The 10 SSR counts for all the chromosomes of macaca_fascicularis.

| | TAGA | TCAT | GAAT | AGAT | AGAA | GATA | TATC | СТТТ | TCTG | ТСТА |
|-------|------|-------|------|------|-------|------|------|-------|------|------|
| chr1 | 4089 | 10489 | 9620 | 4917 | 27911 | 3910 | 3741 | 24405 | 7258 | 3940 |
| chr2 | 3811 | 9063 | 8322 | 4380 | 23717 | 3508 | 3804 | 20824 | 5701 | 3930 |
| chr3 | 3772 | 8374 | 7569 | 4484 | 23349 | 3571 | 3778 | 20342 | 5642 | 3737 |
| chr4 | 3497 | 8162 | 7062 | 3973 | 21109 | 3332 | 3182 | 18931 | 4887 | 3412 |
| chr5 | 4086 | 9340 | 8308 | 4837 | 23873 | 3988 | 4018 | 21130 | 5093 | 4176 |
| chr6 | 3636 | 8659 | 7594 | 4220 | 24461 | 3363 | 3544 | 20046 | 5417 | 3703 |
| chr7 | 3041 | 7623 | 6699 | 3575 | 19529 | 2847 | 2741 | 17491 | 5305 | 2993 |
| chr8 | 2999 | 7070 | 6210 | 3575 | 19030 | 3064 | 2904 | 16280 | 4465 | 2798 |
| chr9 | 2265 | 5899 | 5320 | 2701 | 15208 | 2107 | 2144 | 13832 | 4285 | 2294 |
| chr10 | 1286 | 4089 | 3776 | 1603 | 9687 | 1213 | 1226 | 8972 | 3456 | 1253 |
| chr11 | 2578 | 6338 | 5856 | 3378 | 17447 | 3038 | 2410 | 15251 | 4211 | 2579 |
| chr12 | 2540 | 6169 | 5460 | 2988 | 15796 | 2377 | 2479 | 14064 | 3935 | 2583 |
| chr13 | 1922 | 4999 | 4368 | 2375 | 13477 | 2023 | 1905 | 11435 | 3455 | 2077 |
| chr14 | 2322 | 6079 | 5608 | 2886 | 17473 | 2419 | 2303 | 13383 | 4176 | 2394 |
| chr15 | 2050 | 5006 | 4534 | 2422 | 12577 | 1937 | 1917 | 11581 | 3501 | 2019 |
| chr16 | 1151 | 2949 | 2639 | 1415 | 8499 | 1185 | 1083 | 8297 | 2485 | 1114 |
| chr17 | 2075 | 4781 | 4013 | 2364 | 11759 | 1987 | 1976 | 9999 | 2721 | 2044 |
| chr18 | 1440 | 3497 | 3083 | 1682 | 8750 | 1411 | 1388 | 7666 | 2227 | 1444 |
| chr19 | 798 | 1827 | 1474 | 1094 | 8318 | 1085 | 724 | 6486 | 1849 | 735 |
| chr20 | 1240 | 3269 | 3110 | 1565 | 8415 | 1482 | 1169 | 8299 | 2648 | 1203 |
| chrMT | | | | | 1 | | 2 | 4 | | 2 |
| chrUn | 1289 | 1968 | 1125 | 1590 | 33522 | 1489 | 1394 | 5179 | 1208 | 1250 |
| chrX | 3233 | 7106 | 5975 | 3775 | 19182 | 3273 | 3363 | 16425 | 4427 | 3374 |

 Table A7

 The 10 SSR counts for all the chromosomes of macaca_mulatta.

| | TAGA | TCAT | GAAT | AGAT | AGAA | GATA | TATC | СТТТ | TCTG | TCTA |
|-------|------|-------|------|------|--------|------|------|-------|------|------|
| chr1 | 3992 | 10592 | 9687 | 4676 | 26903 | 3770 | 3805 | 23518 | 7278 | 4024 |
| chr2 | 3860 | 9246 | 8178 | 4515 | 22654 | 3736 | 3533 | 20263 | 5682 | 3794 |
| chr3 | 3620 | 8366 | 7519 | 4354 | 23341 | 3440 | 3673 | 19989 | 5648 | 3624 |
| chr4 | 3358 | 7902 | 6990 | 3868 | 20838 | 3129 | 3296 | 17875 | 4930 | 3430 |
| chr5 | 4058 | 9169 | 8161 | 4821 | 22761 | 3978 | 3956 | 19873 | 4881 | 4097 |
| chr6 | 3620 | 8568 | 7478 | 4191 | 23428 | 3337 | 3512 | 19346 | 5376 | 3699 |
| chr7 | 2971 | 7552 | 6665 | 3505 | 18814 | 2761 | 2696 | 16920 | 5201 | 2923 |
| chr8 | 2940 | 6957 | 6126 | 3554 | 17995 | 3062 | 2808 | 15413 | 4358 | 2770 |
| chr9 | 2288 | 5829 | 5257 | 2687 | 14584 | 2135 | 2150 | 13343 | 4223 | 2277 |
| chr10 | 1285 | 3984 | 3776 | 1574 | 9454 | 1243 | 1196 | 8714 | 3299 | 1280 |
| chr11 | 2588 | 6341 | 5783 | 3421 | 18892 | 3124 | 2460 | 15284 | 4193 | 2548 |
| chr12 | 2075 | 4997 | 4462 | 2421 | 12608 | 1944 | 2010 | 11210 | 3107 | 2084 |
| chr13 | 2043 | 4837 | 4260 | 2328 | 12718 | 1865 | 2017 | 11290 | 3433 | 1895 |
| chr14 | 2288 | 5991 | 5538 | 2752 | 15042 | 2245 | 2198 | 12551 | 4106 | 2286 |
| chr15 | 2029 | 4956 | 4484 | 2386 | 12241 | 1926 | 1886 | 11039 | 3447 | 1970 |
| chr16 | 1124 | 2926 | 2629 | 1367 | 8167 | 1153 | 1030 | 7917 | 2459 | 1086 |
| chr17 | 2041 | 4768 | 3981 | 2330 | 11213 | 1981 | 1962 | 9850 | 2672 | 2058 |
| chr18 | 1423 | 3365 | 3006 | 1701 | 8557 | 1358 | 1395 | 7483 | 2181 | 1429 |
| chr19 | 758 | 1802 | 1486 | 1002 | 7446 | 1063 | 680 | 5968 | 1888 | 672 |
| chr20 | 1206 | 3265 | 3083 | 1549 | 8063 | 1455 | 1145 | 7707 | 2610 | 1172 |
| chrMT | | | | | 1 | | 1 | 3 | | 1 |
| chrUn | 1808 | 6204 | 2294 | 2219 | 114114 | 1994 | 2257 | 10771 | 2731 | 2025 |
| chrX | 3279 | 7094 | 5925 | 3792 | 19977 | 3297 | 3351 | 17104 | 4393 | 3322 |

| Table A8 | | |
|-------------------|--------------------------------------|-------------|
| The 10 SSR counts | for all the chromosomes of nomascus_ | leucogenys. |

| | TAGA | TCAT | GAAT | AGAT | AGAA | GATA | TATC | CTTT | TCTG | ТСТА |
|-------|------|------|------|------|-------|------|------|-------|------|------|
| chr1a | 2300 | 5504 | 5024 | 2684 | 13392 | 2136 | 2182 | 12578 | 3503 | 2318 |
| chr2 | 3019 | 7497 | 6746 | 3533 | 17774 | 2808 | 2846 | 16107 | 4981 | 3046 |
| chr3 | 3110 | 7207 | 6388 | 3595 | 17557 | 2964 | 2868 | 15988 | 4376 | 3078 |
| chr4 | 2758 | 6588 | 5938 | 3300 | 16612 | 2681 | 2866 | 15108 | 4578 | 2947 |
| chr5 | 3020 | 6752 | 6098 | 3525 | 16522 | 2836 | 2918 | 14581 | 4039 | 3015 |
| chr6 | 2407 | 5151 | 4644 | 2711 | 12872 | 2112 | 2280 | 11589 | 3704 | 2362 |
| chr7b | 2139 | 5030 | 4579 | 2585 | 12619 | 2089 | 2267 | 11490 | 3257 | 2377 |
| chr8 | 2048 | 5155 | 4639 | 2456 | 12414 | 1899 | 1904 | 11526 | 3714 | 2011 |
| chr9 | 2621 | 5658 | 4892 | 2972 | 14597 | 2463 | 2328 | 12155 | 3187 | 2485 |
| chr10 | 1968 | 4534 | 4159 | 2322 | 11685 | 1885 | 1785 | 10474 | 3312 | 1843 |
| chr11 | 2524 | 5660 | 5195 | 2910 | 14199 | 2364 | 2339 | 13022 | 3216 | 2538 |
| chr12 | 2062 | 4839 | 4587 | 2423 | 12463 | 1968 | 1929 | 11405 | 3221 | 1991 |
| chr13 | 1875 | 4817 | 4433 | 2264 | 12864 | 1728 | 1750 | 10408 | 3292 | 1917 |
| chr14 | 1788 | 4044 | 3523 | 1990 | 10308 | 1529 | 1525 | 9547 | 2857 | 1604 |
| chr15 | 2087 | 5438 | 4916 | 2506 | 11784 | 2007 | 2110 | 10651 | 3413 | 2181 |
| chr16 | 2098 | 4842 | 4387 | 2421 | 11473 | 2026 | 1988 | 10535 | 2865 | 2130 |
| chr17 | 1674 | 4012 | 3686 | 1994 | 10746 | 1574 | 1643 | 10091 | 2979 | 1787 |
| chr18 | 1864 | 4479 | 4025 | 2132 | 11676 | 1682 | 1787 | 10588 | 3117 | 1808 |
| chr19 | 1316 | 3333 | 3052 | 1664 | 8481 | 1303 | 1370 | 7638 | 2500 | 1477 |
| chr20 | 1863 | 4016 | 3744 | 2104 | 9657 | 1757 | 1734 | 8388 | 2391 | 1818 |
| chr21 | 1793 | 4101 | 3730 | 2099 | 9865 | 1665 | 1670 | 9225 | 2457 | 1735 |
| chr23 | 679 | 1545 | 1426 | 749 | 3832 | 603 | 590 | 3441 | 914 | 643 |
| chr24 | 377 | 1116 | 1004 | 454 | 2333 | 332 | 255 | 2290 | 1047 | 289 |
| chr25 | 685 | 1380 | 1224 | 735 | 3765 | 605 | 642 | 3164 | 919 | 679 |
| chrUn | 631 | 1866 | 1620 | 2726 | 68386 | 429 | 426 | 10441 | 2745 | 565 |
| chrX | 3394 | 6496 | 5803 | 3957 | 17985 | 3487 | 3754 | 15256 | 4125 | 3700 |
| hr22a | 2617 | 5821 | 5478 | 3099 | 14757 | 2432 | 2431 | 13378 | 3941 | 2539 |
| | | | | | | | | | | |

Table A9

The 10 SSR counts for all the chromosomes of pan_troglodytes.

| | TAGA | тсат | GAAT | AGAT | AGAA | GATA | ТАТС | СТТТ | тстс | тста |
|-------|------|-------|-------|------|-------|------|------|-------|------|------|
| | | | 0.111 | | | 0 | | •••• | 1010 | |
| chr1 | 4398 | 10849 | 9972 | 5108 | 25438 | 3984 | 4085 | 23441 | 7246 | 4282 |
| chr2A | 2189 | 4997 | 4341 | 2483 | 12234 | 1950 | 1967 | 11180 | 3436 | 1998 |
| chr2B | 2747 | 6208 | 5655 | 3149 | 15379 | 2522 | 2558 | 14008 | 3938 | 2672 |
| chr3 | 4203 | 9586 | 8698 | 4676 | 23135 | 3902 | 3847 | 20913 | 5916 | 4177 |
| chr4 | 4474 | 9764 | 8766 | 5098 | 24659 | 4281 | 4236 | 21967 | 5270 | 4535 |
| chr5 | 3880 | 8633 | 7663 | 4436 | 20696 | 3606 | 3500 | 19659 | 5246 | 3921 |
| chr6 | 3709 | 8243 | 7363 | 4215 | 20730 | 3404 | 3409 | 19210 | 5031 | 3695 |
| chr7 | 3266 | 7511 | 6653 | 3829 | 19252 | 3080 | 3068 | 18696 | 4718 | 3207 |
| chr8 | 3107 | 6972 | 6350 | 3661 | 18035 | 3073 | 2870 | 16424 | 4307 | 3005 |
| chr9 | 2334 | 5410 | 4974 | 2632 | 13248 | 2107 | 2135 | 12125 | 3700 | 2322 |
| chr10 | 2452 | 6062 | 5463 | 2861 | 15007 | 2429 | 2371 | 14767 | 4430 | 2533 |
| chr11 | 2565 | 6304 | 5849 | 3062 | 15090 | 2457 | 2464 | 14012 | 4440 | 2643 |
| chr12 | 2674 | 6226 | 5948 | 3123 | 15441 | 2548 | 2454 | 15032 | 3997 | 2737 |
| chr13 | 2253 | 4883 | 4223 | 2506 | 11275 | 2055 | 2131 | 10166 | 2681 | 2224 |
| chr14 | 1731 | 4208 | 3706 | 2063 | 9677 | 1646 | 1634 | 9501 | 2754 | 1692 |
| chr15 | 1506 | 3604 | 3218 | 1625 | 8473 | 1311 | 1299 | 7815 | 2488 | 1433 |
| chr16 | 1342 | 3635 | 3305 | 1602 | 8480 | 1257 | 1249 | 8657 | 2872 | 1400 |
| chr17 | 1275 | 2989 | 2791 | 1510 | 8195 | 1147 | 1038 | 8007 | 2670 | 1163 |
| chr18 | 1634 | 3590 | 3238 | 1886 | 8782 | 1542 | 1543 | 8174 | 2254 | 1619 |
| chr19 | 773 | 2013 | 1596 | 834 | 5858 | 671 | 678 | 6356 | 1954 | 784 |
| chr20 | 933 | 2817 | 2615 | 1074 | 6116 | 848 | 946 | 6347 | 2144 | 981 |
| chr21 | 758 | 1504 | 1305 | 839 | 3966 | 707 | 690 | 3366 | 1028 | 729 |
| chr22 | 411 | 1368 | 1313 | 506 | 3046 | 390 | 407 | 2769 | 1275 | 405 |
| chrMT | | 1 | | | | | 1 | | | |
| chrUn | 909 | 1470 | 2395 | 684 | 4134 | 445 | 536 | 12435 | 1409 | 965 |
| chrX | 3338 | 6609 | 5848 | 3859 | 17083 | 3427 | 3384 | 15111 | 4071 | 3438 |
| chrY | 535 | 900 | 655 | 717 | 3547 | 539 | 605 | 3236 | 931 | 615 |

 Table A10

 The 10 SSR counts for all the chromosomes of papio_anubis.

| | TAGA | TCAT | GAAT | AGAT | AGAA | GATA | TATC | СТТТ | TCTG | TCTA |
|-------|------|-------|------|------|--------|------|------|-------|------|------|
| chr1 | 3872 | 10425 | 9563 | 4687 | 25568 | 3783 | 3780 | 23446 | 7273 | 4049 |
| chr2 | 3731 | 9143 | 8112 | 4378 | 22407 | 3611 | 3477 | 20273 | 5679 | 3784 |
| chr3 | 3596 | 8324 | 7402 | 4278 | 21550 | 3429 | 3488 | 19289 | 5566 | 3564 |
| chr4 | 3250 | 7818 | 6868 | 3775 | 20282 | 3047 | 3143 | 17631 | 4811 | 3273 |
| chr5 | 3963 | 9121 | 8075 | 4692 | 22233 | 3941 | 3869 | 19449 | 4921 | 4048 |
| chr6 | 3596 | 8512 | 7414 | 4148 | 22403 | 3337 | 3447 | 19097 | 5270 | 3616 |
| chr7 | 2967 | 7460 | 6613 | 3570 | 18373 | 2792 | 2646 | 16586 | 5115 | 2868 |
| chr8 | 2830 | 6904 | 6048 | 3424 | 17552 | 2906 | 2815 | 15122 | 4325 | 2747 |
| chr9 | 2207 | 5733 | 5110 | 2609 | 14258 | 2052 | 2064 | 13252 | 4178 | 2224 |
| chr10 | 1272 | 3937 | 3693 | 1547 | 9226 | 1239 | 1149 | 8721 | 3237 | 1256 |
| chr11 | 2545 | 6206 | 5736 | 3094 | 15648 | 2531 | 2384 | 14167 | 4122 | 2592 |
| chr12 | 2051 | 4998 | 4484 | 2431 | 12527 | 1923 | 1979 | 11176 | 3100 | 2038 |
| chr13 | 2434 | 5844 | 5083 | 2762 | 14789 | 2150 | 2272 | 13142 | 4182 | 2263 |
| chr14 | 2273 | 6021 | 5576 | 2780 | 14306 | 2233 | 2131 | 12461 | 4146 | 2234 |
| chr15 | 2017 | 4962 | 4446 | 2381 | 12168 | 1935 | 1838 | 10945 | 3438 | 1942 |
| chr16 | 1097 | 2903 | 2613 | 1243 | 7918 | 966 | 964 | 7515 | 2511 | 1062 |
| chr17 | 1927 | 4673 | 3887 | 2188 | 10753 | 1829 | 1911 | 9656 | 2681 | 1952 |
| chr18 | 1446 | 3454 | 3069 | 1680 | 8644 | 1392 | 1411 | 7546 | 2157 | 1411 |
| chr19 | 702 | 1814 | 1428 | 923 | 6555 | 875 | 650 | 5522 | 1825 | 694 |
| chr20 | 1152 | 3236 | 3041 | 1390 | 7817 | 1238 | 1131 | 7721 | 2591 | 1152 |
| chrMT | | | | | | | | | | 1 |
| chrUn | 2366 | 6016 | 3788 | 3392 | 141376 | 3667 | 4305 | 18080 | 5860 | 2499 |
| chrX | 3154 | 6977 | 5794 | 3676 | 18253 | 3197 | 3291 | 15831 | 4318 | 3284 |

Table A11The 10 SSR counts for all the chromosomes of pongo_abelli.

| | TAGA | TCAT | GAAT | AGAT | AGAA | GATA | TATC | СТТТ | TCTG | ТСТА |
|-------|------|-------|-------|------|-------|------|------|-------|------|------|
| chr1 | 4779 | 11685 | 10749 | 5677 | 28928 | 4554 | 4343 | 26348 | 8064 | 4696 |
| chr2A | 2235 | 5388 | 4906 | 2702 | 13275 | 2192 | 2097 | 11873 | 3804 | 2437 |
| chr2B | 2955 | 6806 | 6049 | 3377 | 16502 | 2737 | 2688 | 14927 | 4398 | 2870 |
| chr3 | 4347 | 10082 | 9272 | 5068 | 24397 | 4092 | 4154 | 22187 | 6155 | 4420 |
| chr4 | 4801 | 10531 | 9292 | 5616 | 25309 | 4611 | 4660 | 22367 | 5751 | 4874 |
| chr5 | 4169 | 9207 | 8162 | 4650 | 22580 | 3741 | 3863 | 19959 | 5805 | 4181 |
| chr6 | 3692 | 8570 | 7637 | 4340 | 21391 | 3521 | 3449 | 18846 | 5210 | 3774 |
| chr7 | 3261 | 7578 | 6898 | 3856 | 19078 | 3076 | 3274 | 17161 | 4852 | 3396 |
| chr8 | 3383 | 7546 | 6745 | 3938 | 18813 | 3291 | 3132 | 16638 | 4618 | 3232 |
| chr9 | 2487 | 5776 | 5215 | 2801 | 13646 | 2259 | 2217 | 13018 | 3957 | 2351 |
| chr10 | 2597 | 7135 | 9532 | 3061 | 15947 | 2470 | 2459 | 15064 | 4703 | 2716 |
| chr11 | 2556 | 6276 | 5961 | 3124 | 14353 | 2505 | 2365 | 12997 | 4229 | 2520 |
| chr12 | 2758 | 6755 | 6034 | 3289 | 16312 | 2715 | 2634 | 14963 | 4360 | 2944 |
| chr13 | 2404 | 5229 | 4512 | 2754 | 12205 | 2267 | 2279 | 10795 | 2874 | 2421 |
| chr14 | 1916 | 4396 | 3910 | 2208 | 10203 | 1752 | 1674 | 9846 | 2909 | 1738 |
| chr15 | 1611 | 3859 | 3364 | 1735 | 9217 | 1446 | 1331 | 8382 | 2702 | 1532 |
| chr16 | 1399 | 3763 | 3438 | 1624 | 8575 | 1326 | 1303 | 8706 | 3165 | 1420 |
| chr17 | 1234 | 3266 | 3078 | 1534 | 8862 | 1181 | 1373 | 8482 | 2886 | 1445 |
| chr18 | 1612 | 3646 | 3397 | 1862 | 9240 | 1520 | 1638 | 8439 | 2474 | 1709 |
| chr19 | 874 | 2047 | 1790 | 972 | 6067 | 744 | 755 | 6149 | 2136 | 869 |
| chr20 | 967 | 3031 | 2639 | 1178 | 6562 | 907 | 1034 | 6248 | 2295 | 1089 |
| chr21 | 946 | 1694 | 1490 | 997 | 4520 | 871 | 747 | 3925 | 1125 | 837 |
| chr22 | 444 | 1362 | 1306 | 548 | 3152 | 416 | 409 | 2890 | 1328 | 436 |
| chrMT | | | | | | | 2 | | | 2 |
| chrUn | 2257 | 1972 | 3392 | 1107 | 8138 | 738 | 894 | 13899 | 3284 | 2565 |
| chrX | 4158 | 7474 | 6765 | 4666 | 20137 | 4160 | 4522 | 18393 | 5014 | 4576 |

Transparency document. Supporting information

Transparency data associated with this article can be found in the online version at http://dx.doi. org/10.1016/j.dib.2017.04.010.

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