**S5 Table.** Summary of repetitive elements of the B71 MoT genome

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Repeats | Counts | Total (bp) / (% of genome) | Counts in core | Total (bp) in core / (% of core) | Counts in mini | Total in mini (bp) / (% of mini) |
| Class I (LTR) |  |  |  |  |  |  |
|  Copia |  698  | 554,832/1.25 |  594  | 496,082/1.17 |  104  | 58,750/3.04 |
|  Gypsy |  1,322  | 1,678,110/3.77 |  1,040  | 1,411,961/3.32 |  282  | 266,149/13.79 |
|  unknown |  692  | 626,450/1.41 |  590  | 537,936/1.26 |  102  | 88,514/4.59 |
| Class I (LINE) |  |  |  |  |  |  |
|  Tad1 |  165  | 249,837/0.56 |  94  | 141,286/0.33 |  71  | 108,551/5.62 |
|  CRE |  143  | 172,313/0.39 |  101  | 138,429/0.33 |  42  | 33,884/1.76 |
|  Jockey |  85  | 65,307/0.15 |  55  | 35,249/0.08 |  30  | 30,058/1.56 |
|  I |  92  | 22,508/0.05 |  59  | 8,882/0.02 |  33  | 13,626/0.71 |
|  R2 |  26  | 14,163/0.03 |  22  | 13,661/0.03 |  4  | 502/0.03 |
| Class I (SINE) |  |  |  |  |  |  |
|  Alu |  192  | 71,583/0.16 |  148  | 37,856/0.09 |  44  | 33,727/1.75 |
|  Mg |  1  | 195/0.0004 | 0  | 0/0 |  1  | 195/0.0101 |
| Class II (DNA) |  |  |  |  |  |  |
|  TcMar-Fot1 |  395  | 306,805/0.69 |  282  | 197,036/0.46 |  113  | 109,769/5.69 |
|  TcMar-Pogo |  8  | 3,135/0.01 |  0  | 0,000/0.00 |  8  | 3,135/0.16 |
|  MITE |  572  | 152,506/0.34 |  528  | 144,451/0.34 |  44  | 8,055/0.42 |
| Unclassified elements | 2,209 | 1,222,299/2.75 | 1,839 | 957,562/2.25 | 370 | 264,737/13.72 |
| ***Total transposon elements*** |  6,600  | 5,140,043/11.56 |  5,352  | 4,120,391/9.69 |  1,248  | 1,019,652/52.83 |
| rRNA |  25  | 46,010/0.10 |  25  | 46,010/0.11 | 0  | 0/0 |
| Satellite |  77  | 8,595/0.02 |  77  | 8,595/0.02 |  0  | 0/0 |
| Simple\_repeat |  12,715  | 466,976/1.05 |  12,606  | 462,423/1.09 |  109  | 4,553/0.24 |
| Low\_complexity |  1,667  | 73,416/0.17 |  1,654  | 72,867/0.17 |  13  | 549/0.03 |
| ***Total*** |  21,084  | 5,735,040/12.90 |  19,714  | 4,710,286/11.08 |  1,370  | 1,024,754/53.10 |