## Supplemental Table S2. Summary of R-loop peaks in maize centromeres.

| Cen | Length of CENH3-enriched subdomains (kb) | Length of CENH3-depleted subdomains (kb) | Number of total centromere R-loop peaks | Number of CENH3-enriched subdomains R-loop peaks | Number of CENH3-depleted subdomains R-loop peaks | Ratio |
|-----|------------------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------------|-----------------------------------------------|-------|
| Cen1 | 22                                       | 94                                       | 72                                     | 32                                            | 40                                            | 3.42  |
| Cen2 | 857                                      | 526                                      | 650                                    | 442                                           | 208                                           | 1.30  |
| Cen3 | 288                                      | 234                                      | 275                                    | 182                                           | 93                                            | 1.59  |
| Cen4 | 531                                      | 426                                      | 488                                    | 321                                           | 167                                           | 1.54  |
| Cen5 | 1192                                     | 593                                      | 886                                    | 654                                           | 232                                           | 1.40  |
| Cen6 | 70                                       | 85                                       | 71                                     | 51                                            | 20                                            | 3.10  |
| Cen7 | 10                                       | 33                                       | 33                                     | 22                                            | 11                                            | 6.60  |
| Cen8 | 904                                      | 455                                      | 694                                    | 488                                           | 206                                           | 1.19  |
| Cen9 | 1228                                     | 427                                      | 711                                    | 606                                           | 105                                           | 2.01  |
| Cen10| 926                                      | 258                                      | 542                                    | 467                                           | 75                                            | 1.73  |
| Total| 6028                                     | 3131                                     | 4422                                   | 3265                                          | 1157                                          | 1.47  |