**Supplemental Table S5. The frequency of GAGA factor motifs, but not the pause button sequence, is underrepresented in chromosome 4 promoters.** PB - Pause button. GAGA factor (TRL) binding motif – TRL motif. Inverted GAGA factor binding motif – iTRL motif.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Euchromatin | Pericentric heterochromatin | Chromosome 4  |
| # of genes  | 7556 | 256 | 63 |
| # of genes with PB | 1133 (15.0%) | 21 (8.2%)\* | 6 (9.5%) |
| # of genes with TRL motif | 1832 (24.3%) | 62 (24.2%) | 7 (11.1%)\*\* |
| # of genes with iTRL motif  | 1902 (25.2%) | 70 (27.3%) | 8 (12.7%)\*\*\* |
| # of genes with Inr motif | 757 (10.0%) | 20 (7.8%) | 4 (6.4%) |

\* significantly lower than euchromatin; p = 0.0038

\*\* significantly lower than euchromatin (p < 2.69e-3) and heterochromatin (p = 2.67e-3)

\*\*\* significantly lower than euchromatin (p < 4.88e-3) and heterochromatin (p = 1.58e-3)