

**Table S4. CENH3 and centromeric repeat density of the two chromosome arms and the three distinct centromere regions of chromosome 5.** CENH3 density is reported as the number of anti-CENH3 reads mapped per 100kb window using MUMmer, averaged either over an entire arm or centromere region. Centromeric repeats are reported as total number of nucleotides per chromosome section.

	Short arm	"L"	"I"	"R"	Long arm
Coordinates (Mb)	99.3-101.6	101.6-104.8	104.8-107.6	107.6-108.6	108.6-111.1
CENH3 density	1.89	38.97	4.79	31.50	1.78
CRM1	7,600	155,697	314,534	6,377	6,617
CRM2	34,271	219,806	22,717	0	5,476
CRM3	0	12,268	29,926	0	0
CRM4	24,151	15,583	10,207	6,775	2,685
CentC	8,313	0	81,280	0	0