

TABLE S2**Lengths and ratios of unsynapsed axes**

	Lengths of unsynapsed regions (um/um)	Ratio
	14.7/13.1	1.12
	13.3/10.6	1.25
	7.1/5.5	1.29
	3.9/2.1	1.86
Unsynapsed regions associated with interlocks	3.8/2.7	1.41
	4.3/3.8	1.13
	3.3/2.3	1.43
	7.0/6.6	1.06
	5.1/3.1	1.65
	11.6/9.4	1.23
	5.3/2.5	2.12
Average ratio		1.41±0.33
	7.0/6.7	1.04
Unsynapsed regions not associated with interlocks	11.1/10.7	1.04
	2.5/2.4	1.04
Average ratio		1.04±0.003