

**Table S1. DNA contents of the central cell nuclei and endosperm nuclei of six *g/c* seeds and one *GLC* seed, respectively, measured by fluorescence intensity via confocal microscopy**

Seed	Nucleus	Fluorescence sum	DNA content
Selfed <i>g/c_1</i>	Integument_lowest	268397 ± 2875	2C
	Integument_highest	590725±17226	4C
	Central cell	639706	4C
Selfed <i>g/c_2</i>	Integument_lowest	245192±15764	2C
	Integument_highest	658207±22015	4C
	Central cell	640786	4C
Crossed <i>g/c_1</i>	Integument_lowest	653109 ± 83194	2C
	Integument_highest	1336287±121368	4C
	Central cell	1207159	4C
Crossed <i>g/c_2</i>	Integument_lowest	612827 ± 43023	2C
	Integument_highest	1302303 ± 42450	4C
	Central cell	1203274	4C
Crossed <i>g/c_3</i>	Integument_lowest	740964 ± 72628	2C
	Integument_highest	1513880 ± 55333	4C
	Central cell	1495212	4C
Crossed <i>g/c_4</i>	Integument_lowest	665772 ± 36040	2C
	Integument_highest	1537253 ± 76385	4C
	Central cell	2349877	6C
Selfed <i>GLC</i>	Integument_lowest	508320 ± 42087	2C
	Integument_highest	845585 ± 35221	4C
	Endosperm_1	873229	4C
	Endosperm_2	1049672	>4C, <6C
	Endosperm_3	1120821	>4C, <6C
	Endosperm_4	1154421	>4C, <6C
	Endosperm_5	1183487	>4C, <6C
	Endosperm_6	1299198	>4C, <6C
	Endosperm_7	1300873	>4C, <6C
	Endosperm_8	1355405	6C
	Endosperm_9	1376358	6C
	Endosperm_10	1380369	6C

For the diploid reference of DNA content in each seed, 15 integument nuclei were measured, and the 'fluorescence sum' is expressed as the average of three integument nuclei with the lowest or the highest fluorescence levels ±s.d. The C-values in the last column are the presumptive DNA content of the reference integument nuclei followed by the estimated DNA content of the central cell/endosperm nuclei for each seed.