

**Table S2.** This study selected five varieties with high-phenotypic values and five varieties with low-phenotypic values for the two traits as experimental materials.

Line	C18:2(%)↑	C18:3(%)	Line	C18:2(%)	C18:3(%)↑
K158_High	69.24	9.76	K042_High	60.41	14.34
K254_High	69.43	9.11	K139_High	59.56	14.55
K077_High	69.56	10.42	K108_High	63.46	14.82
K152_High	70.53	5.82	K113_High	70.73	15.46
K113_High	70.73	15.46	K130_High	56.94	15.77
K211_Low	46.07	6.83	K176_Low	50.55	1.39
K151_Low	46.57	3.30	K064_Low	55.82	2.58
K099_Low	47.23	5.43	K041_Low	57.59	2.97
K271_Low	47.30	4.64	K291_Low	66.30	3.08
K133_Low	47.62	4.75	K111_Low	53.46	3.22

Note:C18:2: Linoleic acid C18:3: Linolenic acid.