

Supplemental Table 1. Test of camelina seeds' Kanamycin resistance

Kanamycin (mg/L)	<i>fad2/fae1</i>	<i>EcCPS1</i>	<i>EcCPS-SfLPAT1</i>
50	+	+	+
100	+	+	+
150	+	+	-
200	+	+	-
225	+	-	-
250	-	-	-
300	-	-	-

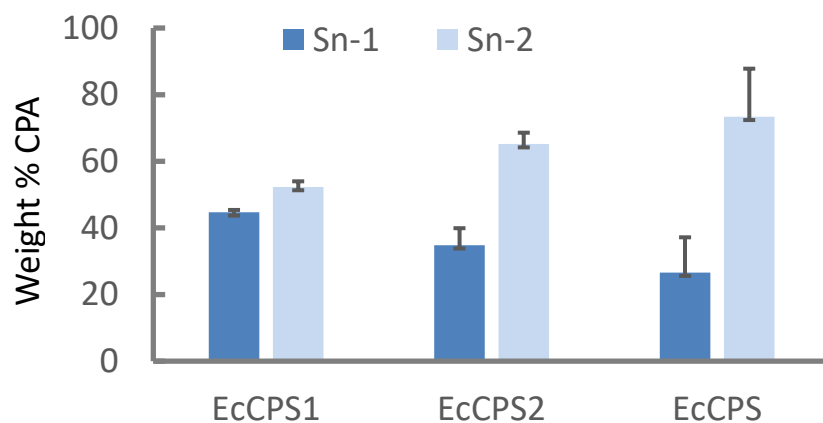
Seeds were germinated on ½ MS medium supplemented with different concentrations of Kanamycin. + represent plants with real leaves developed after 2 weeks on the medium, - represent no real leaves development after 2 weeks.

Supplemental Table 2. Fatty acid composition of *sn*-1 and -2 positions of PC from *EcCPS2* transgenic camelina

Line	16:0%	18:0%	18:1%	18:2%	CPA%
<i>fad2/fae1</i>					
<i>sn</i> -1	21.4 ± 0.8	8.2 ± 0.9	65.1 ± 0.9	5.3 ± 2.0	nd
<i>sn</i> -2	0.0 ± 0.7	1.3 ± 1.3	84.0 ± 0.9	14.7 ± 2.0	nd
<i>EcCPS2</i>					
<i>sn</i> -1	14.7 ± 0.2	4.1 ± 0.6	6.3 ± 3.3	0.0 ± 0.0	74.9 ± 2.8
<i>sn</i> -2	0.0 ± 0.2	1.1 ± 0.6	75.4 ± 2.7	17.1 ± 2.1	6.4 ± 2.1

Values represent mean weight percent ± SD (n=3); nd, not detectable.

Supplemental Figure 1. Cyclopropane fatty acid distribution in *sn*-1 and -2 positions of DAG from EcCPS transgenic camelina



Regiochemical analysis of CPA-DAG. Values represent means (\pm) standard deviation (n=3).