

Table S1. Fatty acid compositions of leaves (A) and roots (B) from *Brassica napus* wild type and two *Bnfad2* double-mutants. Data are mean +/- SE for three plants.

A.

Line	Fatty Acids (percent in total)					
	16:0	16:3	18:0	18:1	18:2	18:3
Wild type	13.1 +/-0.7	14.3 +/-0.5	2.7 +/-0.8	2.6 +/-0.7	13.4 +/-1.3	53.9 +/-1.5
<i>Bnfad2.a5/c1</i>	14.6 +/-0.6	14.0 +/-0.7	2.1 +/-0.1	3.8 +/-0.8	12.7 +/-0.9	52.4 +/-1.9
<i>Bnfad2.a5/c5</i>	11.6 +/-0.7	14.4 +/-0.8	1.4 +/-0.4	16.9 +/-3.2	6.9 +/-0.4	48.8 +/-3.1

B.

Line	Fatty Acids (percent in total)				
	16:0	18:0	18:1	18:2	18:3
Wild type	21.5 +/-0.9	3.7 +/-0.4	13.5 +/-0.9	25.7 +/-1.8	34.7 +/-1.1
<i>Bnfad2.a5/c1</i>	19.1 +/-0.4	2.5 +/-0.3	26.2 +/-0.9	18.0 +/-1.6	33.7 +/-1.4
<i>Bnfad2.a5/c5</i>	12.5 +/-0.5	1.8 +/-0.2	65.2 +/-2.5	3.4 +/-0.5	16.5 +/-0.3