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Table S1: GC-MS of fatty acids produced by soybean seeds (NEGC) and soybean seeds producing CV-N (CV-N).

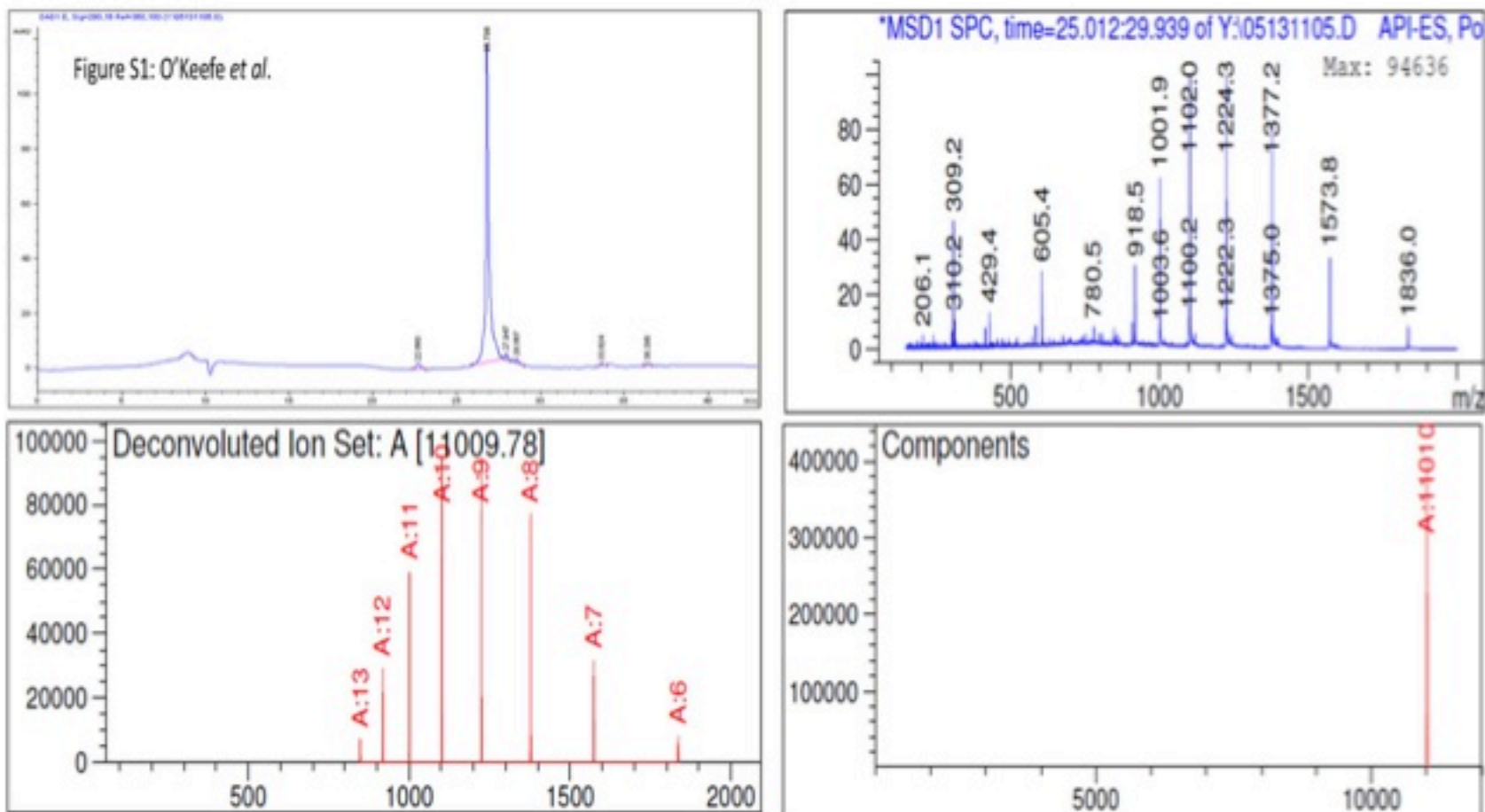
Supporting Information

**Table S1** GC-MS of fatty acids produced by soybean seeds (NEGC) and soybean seeds producing CV-N (CV-N). Ret. Time means retention time of the compound in the column. A/H stands for area/height. Name indicates the compound identified.

Peak#	Ret.Time NEGC	Ret.Time CV-N	A/H NEGC	Concentration (%) NEGC	A/H CV-N	Concentration (%) CV-N	Name
1	13,042	13,043	2.49	0.07	2.48	0.08	Octanoic acid, ethyl ester
2	27,550	27,554	2.34	0.12	2.37	0.11	Tridecanoic acid, 12-methyl-, methyl ester
3	29,869	29,874	2.60	0.83	2.54	1.00	Nonanedioic acid, dimethyl ester
4	31,646	31,593	6.96	18.66	5.37	16.99	Hexadecanoic acid, methyl ester (palmitic acid)
5	31,937	31,921	2.53	0.15	2.45	0.15	11-Hexadecenoic acid, methyl ester
6	33,314	33,310	3.90	0.12	2.87	0.10	Heptadecanoic acid, methyl ester
7	33,672	33,673	3.17	0.07	2.50	0.07	Cyclopropaneoctanoic acid, 2-hexyl-, methyl ester
8	35,269	35,221	6.91	4.90	5.53	5.53	Heptadecanoic acid, 16-methyl-, methyl ester
9	35,635	35,554	29.99	29.02	6.55	33.39	9-Octadecenoic acid, methyl ester, (Oleic acid)
10	36,398	36,329	8.67	34.19	6.21	30.76	9,12-Octadecadienoic acid, methyl ester (linoleic)
11	37,283	37,249	3.39	2.00	2.66	1.78	9,12,15-Octadecatrienoic acid, methyl ester (linolenic)
12	37,626	37,613	7.89	0.16	3.48	0.15	6,9-Octadecadienoic acid, methyl ester
13	38,660	38,655	8.85	0.54	3.90	0.50	6,9-Octadecadienoic acid, methyl ester
14	38,957	38,953	6.24	0.41	3.89	0.23	3-Methoxy-N-methylsulfonylbenzenecarboximidamide
15	39,480	39,473	3.95	0.24	2.97	0.14	4,4,8,10,14-Pentamethyl-17-(perhydro-2,6,6-trimethyl-2H-pyran-2-yl)-Salpha-gorane-3beta,12beta-diol
16	40,718	40,720	5.85	0.19	3.98	0.09	9,12,15-Octadecatrienoic acid, methyl ester (linolenic)
17	41,058	41,048	4.09	1.23	3.76	1.06	9,12,15-Octadecatrienoic acid, methyl ester (linolenic)
18	41,325	41,314	4.11	1.11	3.43	0.99	9,12,15-Octadecatrienoic acid, methyl ester (linolenic)
19	41,583	41,589	4.13	0.56	4.84	0.49	Tricosanoic acid
20	41,756	41,742	6.95	3.18	3.12	1.45	9,12,15-Octadecatrienoic acid, methyl ester (linolenic)

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Figure S1: LC-MS (electrospray ionization) spectrum and deconvoluted ion set for the purified rCV-N showing the expected molecular weight of 11,009 Da.



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Figure S2: Dot-blot of oil and protein extracts from non-transgenic and transgenic  $T_3$  seeds submitted to standard defat processing.

