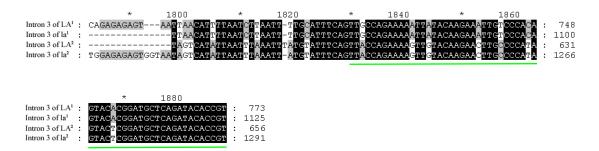
Intron 3 of LA ¹ : Intron 3 of la ¹ : Intron 3 of LA ² :	GAGAATAAG GAGAATAAG	* 20 CCATCGGACACAC CCATCGGACACAC CCATCGGACACAC CCATCGGACACAC	CACCAGAAC <mark>T</mark> CACCAGAAC-		GTTCGGGGGCCC				31
Intron 3 of LA ¹ : Intron 3 of la ¹ : Intron 3 of LA ² :	* TTTCGGATT	100 TTCG <u>GT</u> ATTATGT	* TCATAAGCCC	120 CATTCGGTTT	*	140 TGAATGGGTT	* TCGGTTCGG!	160 TTCGGTTTT	- 162 -
Intron 3 of la ¹ Intron 3 of LA ²	TTCCGGATT	180 CGGTTCGGATTGG	ATCGGATTGT 	AACCAATGTT	GAAATCGTC	\AAAAAATATT	TTTTTAAAT(;	243
Intron 3 of la ¹ : Intron 3 of LA ² :	ATGACAAAA	260 АААААСТСААААТ	 ATATAAATTA 	TTCACAAAAC'	 FAATTAAAAA?	TAGTTAATTT	ATCTAAACTA	ACTGAAAA :	324
Intron 3 of LA ² :	GTATTAAAA	340 Атаатааатаааа	TAAATTATAA 	AATATTTAGA.	ΑΤΑΤΤΑΤΑΑΑ/				-
Intron 3 of LA ² :	ATATTAGCA	420 ГАТТТААСТААСТ	TTGGATGTCT		GTTTGGATTT		AAGTTATAA		486
Intron 3 of LA2 :	AAAGTATTA			TTTTTGTATA.		CCGGTTTCGG	TTTTTTCGG	:	-
Intron 3 of LA2 :	AGGTAAGTA	580 ATTCGGGTTGGGG	TAGAAACGCC		AGAACCATGO	SCCATGTTGAA	AACGACGAG! AACGACGAG!	ICTTGGGTT ICTTG <mark>T</mark> GTT ICTTGGGTT	64 648 64 64
	CCGGTAATC CCGGTAATC CCGGTAATC		TAGT TAGT <mark>TTCTCT</mark>	AT TGACTTTTAT	LTTTTTTTTC: LTATTTGTTTC		TATT-TCCT TATTCTTAT(TTAATTTT : TCTATGTT :	128 712 145 145
Intron 3 of LA ² :	CTTAGGATT CTTAGGATT CTTAGGATT	40 * CTATCTATTTATT CTATCTATTATT CTATATGTTTATT CCACCTCTTTATT	TTAATTA TTAATTA TTATTAGTTT	ATG			TTTTCAG	:	: 187
Intron 3 of la1 :		ITCGAGGCTAGGA ITCGAGGCTTGGA ITTGAGGC <mark>C</mark> AG <mark>AC</mark>	CGACCA <mark>CTT</mark> - CGACCATTT-	GTCAG	A-ACTGT	* CGTTTAGCTG CGTTTAGCTG TTTTCAGCTA TTT <u>TTCA</u> CACA	TAGTAA <mark>-</mark> AA/ TAGTAA <mark>A</mark> AA/	ATGATTTT :	229 813 248 307

Intron 3 of LA ² :	900 C C AATCTTAACATT	AAGTGTA		ATA	GTTCACCAGT		GAT :	272
Intron 3 of LA ¹ : Intron 3 of la ¹ : Intron 3 of LA ² : Intron 3 of la ² :	980 TGATTATCTTAG TAATTTTCTTGA	* GTTTATAGT- TGTTTATAGT- TGGTTTACAGT- -AGTTTACAATT	1000 	* 1020 CT CT CT	* 	1040 GAAAAAT AAAAAATGTAAC	* : CAA : TTTGACAA :	246 830 324 468
Intron 3 of la ¹ : Intron 3 of LA ² :	1060 TACTTTT AAATTTTTGCTA	AT		GTAGT GTAGT ACTA <mark>GTA</mark> CC	faactttaac <mark>a</mark> ac faactttaac <mark>a</mark> ac faactttaac <mark>a</mark> ac	GGACCACTTATA! GGACCACTTATA!	FTCGACGT : FTCGA <mark>T-C</mark> :	284 868 374 548
Intron 3 of la ¹ : Intron 3 of LA ² :	1140 CATTGGCATAAA CATTGGCATAAA CATTAGCATAAA CATT <mark>A</mark> GCATAAA	ATGATTCTCCTC ATGATTCTCCTC ATGATTCTCCTC	GA <mark>T</mark> AT <mark>T</mark> CGTTTA GA <mark>A</mark> ATCCGTTTA	CTTTTCTTAGTA CTTTCTTCATTA	ITTTTCT ITTTTTTCAAACA	GTTTTGG <mark>AGC</mark> TT: GTTTTGG <mark>C</mark> GTTT:	* TCAT : TCAT : GTLTGCA : GTCTGCA :	939 455
Intron 3 of la ¹	1220 Acaact Acaact Atcttcaaaact Atcttc <mark>a</mark> aaact	AATAA-AAAGAA	AAAACTTATAAA AAAACTTATAAA	CATTAAACACAC	CACATGCA <mark>GT</mark> TAA CACATGCA <mark>GTTAG</mark> CACATGCAATCAA	TTAATTCCAACA	гатаатат :	422 1013 527 700
Intron 3 of LA ¹ : Intron 3 of la ¹ : Intron 3 of LA ² : Intron 3 of la ² :	TAAGGACAAATT	TTAAAT-ATTAC TTAAAT TTC <mark>AAT</mark> GAATAT	TTAATA	GTTTCGCAAA	* 1 GAGTGTCGTTTTA AAGTGTCATTTTA	GA	:	557
Intron 3 of la ¹ : Intron 3 of LA ² :							: :	-
Intron 3 of la ¹ : Intron 3 of LA ² :	* 						: :	-
Intron 3 of la ¹ : Intron 3 of LA ² :	* GACACTCTTTGT		AAATAAA ATTAA- GTAAGTAA-				: : :	1035 565
Intron 3 of la ¹ : Intron 3 of LA ² :	* ATAATTTATTGA 	TTTTA	TTTTTAG	TTTAATTTTCTA		GATTAGGTATAT(_
Intron 3 of la ¹ : Intron 3 of LA ² :	* ATGTTTTTCTAT ATGTTTTTATTT	AGAAAATATGCA	AAATTAAATGTI		GTGCAAAAAGCTA	AAACGACATTTG	:	-



Supplementary Figure S4. Nucleotide sequences alignment of intron 3 of SalFAD3.LA1 and SalFAD3.LA2 genes in yellow mustard. The sequence of exon 3 was underlined in red while that of exon 4 was underlined in green. The nucleotide sequence of inserted fragment in exon 3 of la^1 was from position 31 to 615. The new intron splicing site GT in the inserted fragment in exon 3 of la^1 was underlined in black. The nucleotides in blue rectangle indicated the inserted fragment that remained in the CDS of exon 3 of la^1 . The nucleotides in black rectangle indicated the 5 bp direct repeat (5'-AGAAC-3').