

Additional file 1 – Gene cloning primers

Primer name	Sequence (5' to 3')	Notes
<i>Degenerate primers</i>		
C1F	TTRGGNCAYGAYTGYGGNCA	This study
C2R	YTGNGGRAACAAGTGGTG	This study
C3F	GTGGACATGGGAGTTTTCNGA	Mikolajczyk et al., 2010
C4R	TGGCATCGACCAARTGRTARTG	Mikolajczyk et al., 2010
C5F	AARATTGCTGARATTAGRGC	Torres-Franklin et al., 2009
C6R	CCAGTRTCACTAACRAARTGRTC	Torres-Franklin et al., 2009
C7F	GCTTGTTGGACTGCAATGGC	Torres-Franklin et al., 2009
C8R	GGGATYTGHHGGGAARAGATGATG	Torres-Franklin et al., 2009
<i>FAD3-1 primers</i>		
C9F	CAAAGAGAGACGGGGAAGT	Blunt-end cloning
C10R	AGCGAAAAGAATGAAGGCC	Blunt-end cloning
C11F	AATGAGCTCCGGGGAAGTGAAGAATG	<i>SacI</i> site underlined
C12R	CCCGCATGCTCTAAATAAAATGGCTCA	<i>SphI</i> site underlined
<i>FAD3-2 primers</i>		
C26F	AAGGTTCGAAAGGAGTGGAGATA	Blunt-end cloning
C28R	ATGAACAAATTATGGCCCTTAA	Blunt-end cloning
C29F	AAAGAGCTCATGGAGTTGAAAAGGGAG	<i>SacI</i> site underlined
C31R	GGGGCATGCATCTTAGTTATTGTATCA	<i>SphI</i> site underlined
<i>FAD7/8-1 primers</i>		
C13F	CGGTGGTTGAGTTTTTCTTTTTATCAG	Blunt-end cloning
C14R	CCATTGTTGTGGGGCTGAGCTA	Blunt-end cloning
C15F	CCCGAGCTCTTTTTATCAGAGTCTTCAATG	<i>SacI</i> site underlined
C16R	TTGGCATGCGGGGCTGAGCTATTTTA	<i>SphI</i> site underlined
C27F	GGTGGTTGAGTTTTTCTTTTTACCTG	Blunt-end cloning
C30R	CCATTAGTGTGGGGCTGAGCTA	Blunt-end cloning
<i>FAD7/8-2 primers</i>		
C17F	GGCTGAACCTTTGGGAACC	Blunt-end cloning
C18R	CCGAATAGAGGTTTTAGCCAGA	Blunt-end cloning
C19F	TTAGAGCTCTAGCATCAGCCTCCAATG	<i>SacI</i> site underlined
C20R	TTAGCATGCAGAACTTCAGGGCTTCA	<i>SphI</i> site underlined
<i>FAD7/8-3 primers</i>		
C21F	TGAGGTTCAATTTCCAAGTCGC	Blunt-end cloning
C22R	ATGGCCATACAAAGTTCAGTGCT	Blunt-end cloning
C23R	TTGAAGTTTTATGAAGCATCA	Blunt-end cloning
C24F	GGTGAGCTCTACCTGGGATTTTAATGG	<i>SacI</i> site underlined
C25R	TTAGCATGCTCATGCTGACTTGAAAAT	<i>SphI</i> site underlined

Mikolajczyk K, Dabert M, Karlowski WM, Spasibionek S, Nowakowska J, Cegielska-Taras T, Bartkowiak-Broda I: **Allele-specific SNP markers for the new low linolenic mutant genotype of winter oilseed rape**. *Plant Breed* 2010, **129**:502-507.

Torres-Franklin M-L, Repellina A, Huynh V-B, d'Arcy-Lameta A, Zuily-Fodila Y, Pham-Thi AT: **Omega-3 fatty acid desaturase (FAD3, FAD7, FAD8) gene expression and linolenic acid content in cowpea leaves submitted to drought and after rehydration**. *Environ Exp Bot* 2009, **65**:162-169.