

A

	10	20	30	40	50	60
LEA2	ATGGCTCGTTCTCTCGCTAACGCTAAGATCCAATCCGTCTTCGGCTCCGAAAAGCTCTCG					
LEA38	ATGGCTCGTTCTATCTCTAACGTTAAGATCGTATCTGCTTTCGTCTCTCGTGAACCTCTCC					
	10	20	30	40	50	60
	70	80	90	100	110	
LEA2	AACGCCGTTTTTCAGACGAGGGTTTGCCGCCGCAGC-----CAAAACGGCGTTA-----GAT					
LEA38	AATGCTATCTTCCGACGTGGTTATGCGGCCACGGCGGCGCAAGGGAGCGTTTCGAGCGGT					
	70	80	90	100	110	120
	120	130	140	150	160	
LEA2	GGAAGC-----GTTTCGACCGCGGAGATGAAGAAGAGAGCTGGGGAAGCTTCAAGC					
LEA38	GGAAGAAGTGGAGCTGTTGCTTCGGCTGTGATGAAGAAGAAGGGAGTGGAAGAAATCAACC					
	130	140	150	160	170	180
	170	180	190	200	210	220
LEA2	GAGAAGGCACCATGGGTTCCAGATCCTAAAACCGGTTATTACAGACCGGAAACCGTTTCT					
LEA38	CAGAAGATTTCTTGGGTTCCAGATCCCAAACCGGTTATTACAGACCGGAAACCGGTTCC					
	190	200	210	220	230	240
	230	240	250	260	270	
LEA2	GAGGAGATTGACCCGGCTGAGCTACGAGCTATTCTCTTGAACAACAAGCAATAA					
LEA38	AACGAGATTGACGCGGCTGAGCTACGAGCAGCTCTCTTGAACAACAAGCAGTGA					
	250	260	270	280	290	

B

LEA2 intron	1	-----GTAACATCTG-TTTCTGAAACAAAAACGTTATGTAT	35
LEA38 intron	1	GGTAAGTCTCTATTGT----TCTGTTTTCT-----ACTTTA-----	32
LEA2 intron	36	TGCTCTG---TTTTCTCGTCG-----CTTTAACAAAACGCTGAC	71
LEA38 intron	33	TGCTCTGTTTTTTTTCTTGTAGTTATGCTCTGTTTTTTCTAAACGGTGTC	82
LEA2 intron	72	GTTTTGGATTTTG-GATTCTCTTCAG	96
LEA38 intron	83	GTTTT---TTGTGTGAT-----AACA-	100

Supplementary data Fig. 1. Comparison of CDS (A) and intron (B) nucleotide sequences of LEA2 and LEA38 genes. CDS alignments were performed with LALIGN Pairwise Sequence Alignment (Huang and Miller, 1991). Intron global alignments were done with EMBOSS Needle (Needleman and Wunsch, 1970). Default settings were used for both alignments. Identical nucleotides are indicated in red.