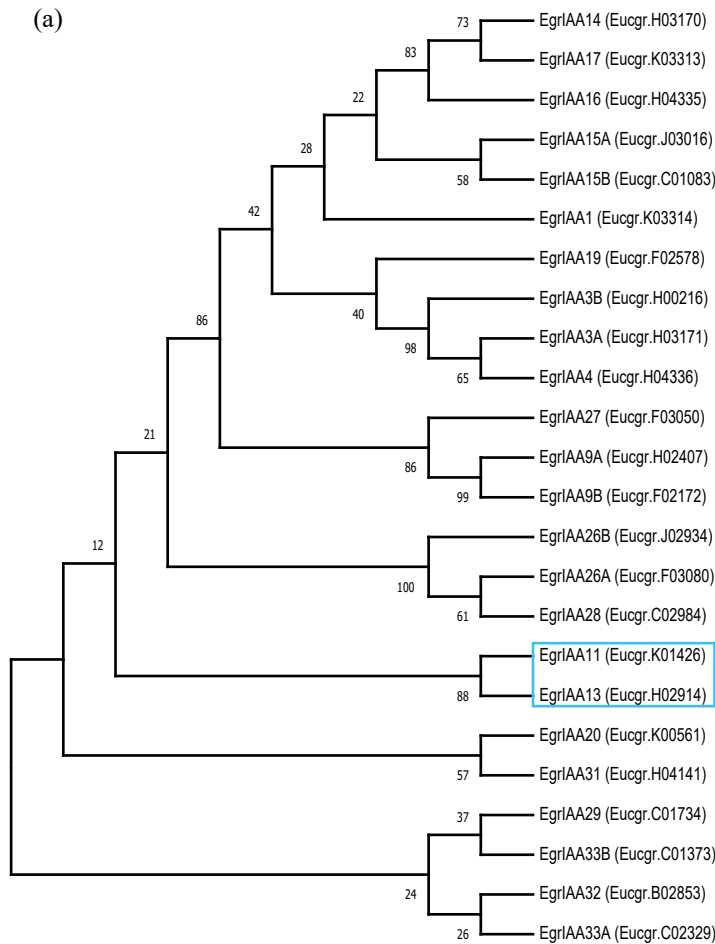


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(b)

```
#####  
# Program: water  
# Rundate: Sun 7 Nov 2021 01:20:45  
# Commandline: water  
# -auto  
# -stdout  
# -asequence emboss_water-I20211107-012041-0067-96554010-p2m.asequence  
# -bsequence emboss_water-I20211107-012041-0067-96554010-p2m.bsequence  
# -datafile EDNAFULL  
# -gapopen 10.0  
# -gapextend 0.5  
# -aformat3 pair  
# -snucleotide1  
# -snucleotide2  
# Align_format: pair  
# Report_file: stdout  
#####
```

```
#=====
#
# Aligned_sequences: 2
# 1: EgrIAA11
# 2: EgrIAA13
# Matrix: EDNAFULL
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 1119
# Identity: 532/1119 (47.5%)
# Similarity: 532/1119 (47.5%)
# Gaps: 430/1119 (38.4%)
# Score: 1218.5
#
#
#=====
```

EgrIAA11	117	TGCAAGTCTCTCTCTCTCTATCTCC-CTTCCTCCGCCGTCGAAGAA	165
		. . .	
EgrIAA13	2	TGGAAG-----CTCCACCTGCTC-----	19
EgrIAA11	166	ATGCAAGGAGACAGCGCCGGCGAGGGCGGTCGCCGGCGGCGGAGCTGAC	215
		
EgrIAA13	20	-----GCGGCCGTGAGGCGGCGGCCG-----	42
EgrIAA11	216	CGGGTCAAAGGGGGACGACGACTACGTCGCCTCCTCGTC-----GGAGG	259
		. . .	
EgrIAA13	43	-----AAGCGCGA-----CTCGGCAGGAGAGGAGG	67
EgrIAA11	260	GCTCCTCGACCCCGGA---CGAGCTGGCCCTCGGGCTGACCCTCGGGGT	306
		
EgrIAA13	68	-----CGGAGCTCGAGCTCGGCCTCGGGCT---CAGCGTGGGC	102
EgrIAA11	307	GGCGACTCCCGCCCCTCAAGTCCCCGCGGCCCGGCC-----CGTC---	348
		
EgrIAA13	103	GGCGGGCGGCGGCGGCGGAG----CGC-GCCGGGGCCAAGCGCGGCA	147
EgrIAA11	349	ATCCTGACCGCAAGGACCTGCCTTCCTTCGTCCCCGCCTCCCCCTCGCC	398
		. .	
EgrIAA13	148	ATCCTGACGGCCCGGACTTCCCTTCCTCCGT-----GGG	182
EgrIAA11	399	GCCC-----CCGCCCGCTGCCGGCGTCGGCGTCGGCGTCGTCTGTCG	441
		. .	
EgrIAA13	183	GACCAAGAGGACCGCGACG-----AGTC-	206
EgrIAA11	442	TCGTCTTGTTTCGTCACGCTCAGCCGGGCGGAGGGCGGCGGGGACTAA	491
		. .	
EgrIAA13	207	-CGTCT-----CGC-----AGGAGGGTGGCG-----	226
EgrIAA11	492	GAGGGCGCGGATTCCGTGGCCGCTCCTACTGCTTCCAGTCAGGTAGTGG	541
		. .	
EgrIAA13	227	-----GTGGAT-----CCCCACTTCTGCAAGTCAGGTTGTGG	259
EgrIAA11	542	GATGGCCTCCCCTCAAACTCACAGAATGAACGTCTTTATTAACAATC-C	590
		
EgrIAA13	260	GATGGCCACCTATAAGGCATACAGGATGAACAGCCTGGTCAAC-CTCGC	308
EgrIAA11	591	AAAATCTACTTC-AACT--GGAGAGTTTGACCCGTAGTTGAGAAAAATG	637
		.	
EgrIAA13	309	AAAGGC-ACCTCGAGCTGAGGACAACATGTCGCCG-----AATG	346
EgrIAA11	638	---ATAGCAAGCTT-----GCTGTGTTAGAGAAGATCAATA-----	670
		.	
EgrIAA13	347	AAAAGAGCAAG--TCAAAGGATG-GTTCG-GAGGA-CAATACGCGTACTG	391

EgrIAA11	671	ATGCCAGAAATGA-----CAAAGCAGTAACTCCATGAA	704
		. . .	
EgrIAA13	392	GTGGCATGACTGATGTTGACGGCAGAGCAAAAGCA-----	428
EgrIAA11	705	GGTATCGTGCCCCAAAATTCTCCTTTTGTAAAGGTCAATATGGATGGAG	754
		.	
EgrIAA13	429	--TATCGGG-----TTTGTGAAGGTGAACATGGATGGGA	460
EgrIAA11	755	TTGCAATTGGAAGGAAGGTAGATCTAAATGCACATCAATGCTATGAGAGT	804
		.. .	
EgrIAA13	461	TCCCCATTGGAAGGAAAGTGGACTTGAATGCTCATGCTTGTATGAGACT	510
EgrIAA11	805	TTAGCAGAGACATTGGAGGATATGTTTGATCATCCCA-CTACAAAAGTCA	853
		. . .	
EgrIAA13	511	CTAGCTCAAGCTTTGGAAGACATGT----TCTCCGACCTGCCAA-----	551
EgrIAA11	854	ACGCACCACGTTCAAATAGGTTGATGTATCATGG-----ATTGGT	893
		.	
EgrIAA13	552	-----AACTA--TGATTTAACCAGGGCTGAAGAAAATAGGC	586
EgrIAA11	894	ACGAGCAACAAGTGCCTC-AAAATTGT---TGGATGGTTCATCTG-GTTA	938
		.. .	
EgrIAA13	587	A-GGTCAAGAAGT-CCTCGAAGCTTCTCAATGGATG----TTCTGAGTT-	629
EgrIAA11	939	TGTTCTTACTTATGAAGACAAAGATGGAGATTGGATGCTTATTGGAGATG	988
		. . .	
EgrIAA13	630	CGTGCTAACTTATGAAGATAAAGAGGGAGACTGGATGCTCATTGGAGATG	679
EgrIAA11	989	TTCCTTGGAGGTATGTAGCCCGGTG--GT-----ACT----TTCATTTT	1026
EgrIAA13	680	TTCCTTGG-GGGATGTTCTCACTGCCGTCAAGAGACTAAGAATCATGAG	728
EgrIAA11	1027	GATTGTTTATATTGTGTGTACCTTATGCAAGTCTGCACCAATTCATTT	1076
EgrIAA13	729	GA-----CTTCTG-AAGT-----	740
EgrIAA11	1077	TGGCATTGGCATTTTTC--ATATT-----TAAGCTTTGAAGC-----C	1113
		.	
EgrIAA13	741	--GAA--TGGAATAGCTCCAAGATTCCAACAAAAG-----AGCGAGAGG	780
EgrIAA11	1114	CAAGTG-GAA-----ATAT	1126
		.	
EgrIAA13	781	CAAATGAGAAAGCCGATAT	799

#-----
#-----

Online resource 4

In silico analysis demonstrating the unlikelihood of silencing an untargeted *Eucalyptus IAA* during the RNAi knockdown experiments (a) Maximum likelihood tree demonstrating *EgrIAA11* as the closest ortholog of *EgrIAA13* and (b) Pairwise Sequence Alignment (EMBOSS Water) demonstrating the sequence similarity between *EgrIAA13* and *EgrIAA11* (https://www.ebi.ac.uk/Tools/services/rest/emboss_water/result/emboss_water-I20211107-012041-0067-96554010-p2m/aln).