Plasmid Name	Backbone	Genotype
рСОР	pGEM-T	Δ T7, caf <i>lR</i> , <i>caf1M</i> , <i>caf1A</i> , <i>caf1</i>
pCOPΔR	pGEM-T	$\Delta T7 \Delta caflR, caflM, caflA, cafl$
pT7-COP	pGEM-T	T7, caf1R, caf1M, caf1A, caf1
pCOPF	pGEM-T	Δ T7, caf1R-FLAG, caf1M-FLAG, caf1A-FLAG, caf1
pCOPF∆R	pGEM-T	Δ T7 Δ caf1R, caf1M-FLAG, caf1A-FLAG, caf1
pBad-caf1R	pBad33	cafIR

 Table S1:
 List of constructs used in this study.

	Sequence (5' -3')	Function
Forward	TCTAGCCGTTCGAATTGGGCCCGACGTC	Substitution of T7 promoter
Reverse	AGAACAAGAACAATTCACTGGCC GTCGTTTTAC	
Forward	TAATCCTAATGTTACAGAATATAACCCAAATCAAAATAATAG	Deletion of Caf1R
Reverse	GTAACATTAGGATTACCAAAGAG	
Forward	TCATCATCATCTTTATAATCACTCTTTGGTAATCCTAATGTTACTGAC	Addition of C-terminal FLAG tag to Caf1R
Reverse	AAAGATGATGATGATAAATAAAATTCCCGCGGCCGCCATG	
Forward	AAAGATGATGATGATAAATAATGATGTTTAAAGGGGACGGG	Addition of C-terminal FLAG tag to Caf1M
Reverse	ATCATCATCATCTTTATAATCT AAAGTCACATTTTTGGAATACAAAC	
Forward	AAAGATGATGATGATAAATAAAACGGATGTTTATTTCAAACAGGACAC	Addition of C-terminal FLAG tag to Caf1A
Reverse	ATCATCATCATCTTTATAATCGTTATTTAAGATGCAGGTTGTGGATAAC	
Forward	TCTGCTGAATCCTGAATACAAAACC	Amplification of intergenic region I
Reverse	CTTGCGAATTTGATATCTGGTTGAG	
Forward	CATGAACATAGGTGAATTAACATTTGG	Amplification of intergenic region II
Reverse	GACGGAAGTCGATATTTCCAGAG	
Forward	AGTATAAGGTAGAAATTAACCCAGTTAC	Amplification of intergenic region III
Reverse	GGAGCGCCTTCCTTATATGTAAG	
Forward	ATGCTAAAACAGATGACTGTAAATTC	RT-PCR, CaflR
Reverse	AGGCATTCCGACATATTCCTTAAAG	
Forward	ATGATTTTAAATAGATTAAGTACGTTAGG	RT-PCR, CaflM
Reverse	GCATCTAACGGGTATATGATCC	
Forward	ATGAGGTATTCAAAGCTGTTCCTGTG	RT-PCR, Cafl A
Reverse	TGAAGTCCTTGATTAAAAAGAGATACATCTATAC	
Forward	ATGAAAAAAATCAGTTCCGTTATCGCCATTGC	RT-PCR, Cafl
Reverse	GTAATTGGAGCGCCTTCCTTATATGTAAG	
Forward	ATGAGCACTTTTAAAGTTCTGCTATG	RT-PCR, Ampicillin
Reverse	TGTCATGCCATCCGTAAGATGC	
Gene specific primer	CCATAATTG	5' RACE
(dT)17-adaptor	GACTCGAGTCGACATCGATTTTTTTTTTTTTTTTTTTT	5' RACE
Adaptor	GACTCGAGTCGACATCG	5' RACE

Table S2: List of primers used in this study.

Step	Temperature	Time	Number of Cycles
Initial Denaturation	95°C	10 minutes	1 cycle
Denaturation	95°C	30 seconds	40 cycles
Annealing	60°C	30 seconds	
Extension	72°C	30 seconds	

 Table S3: Thermal cycling conditions for RT-PCR

Step	Temperature	Time	Number of Cycles
Initial Denaturation	98°C	3 minutes	1 cycle
Denaturation	98°C	10 seconds	35 cycles
Annealing	45°С - 72°С	30 seconds	
Extension	72°C	25 seconds	
Final Extension	72°C	10 minutes	1 cycle
Hold	4°C	Indefinite	1 cycle

 Table S4:
 Thermal cycling conditions for PCR

Step	Temperature	Time	Number of Cycles
Initial Denaturation	98°C	3 minutes	1 cycle
Denaturation	98°C	10 seconds	35 cycles
Annealing	54 °C	30 seconds	
Extension	72°C	25 seconds	
Final Extension	72°C	10 minutes	1 cycle
Hold	4°C	Indefinite	1 cycle

 Table S5: Thermal cycling conditions for 5' RACE



Figure S1: Schematic of primer design. A diagram of the *caf1* operon present in the plasmids used in this study is shown, with arrows corresponding to the forward and reverse primers and placed in the approximate position where they bind. Forward primers are shown on top of the genes and reverse primers shown beneath. (A) Primers used for RT-PCR are shown in red for *caf1R*, green for *caf1M*, orange for *caf1A* and blue for *caf1*. (B) Primers used for detecting the presence of intergenic regions in cDNA are shown: purple for intergenic region I, olive for intergenic region II and dark blue for intergenic region III.



Figure S2: Schematic of the P1, P2 and P3 regions. The sequence of intergenic region I (INT1), located between *caf1R* and *caf1M* is shown, highlighted in green, with the P1, P2 and P3 regions aligned and highlighted in red, yellow and orange respectively. The ATG nucleotides corresponding to the start codon of *caf1M* are labelled with blue triangles.



Figure S3: Analysis of Caf1 content in the flocculent layer (A) Image of *E. coli* cultures containing the pT7-COP plasmid grown at 35°C for the amounts of time stated, and centrifuged in capillary tubes to visualise the flocculent layer height. (B) SDS-PAGE analysis of the flocculent layers of the cultures from (A). (C) Graph of Caf1 band intensities in arbitrary units, obtained by densitometry of the gel shown in (B).



Figure S4: Diagram depicting 5'RACE experimental design. Part of the *caf1* operon is shown, with *caf1A* in green, intergenic region III in orange and *caf1* in cyan. The location of the gene specific primer binding site at the 3' end of *caf1* is highlighted. Using this primer, cDNA was synthesised and sequenced using the 5'RACE method. Predicted individual transcript sequences are depicted as red lines, where the length of the line represents the length of the sequence read. Only the promoter in the P2 region (responsible for transcription of the polycistronic mRNA) is present, and so the polymerase synthesises cDNA until it dissociates from the DNA. This means the majority of sequence reads continue through intergenic region III into *caf1A*, terminating at different positions.

COP 1 2 4 5 6 7 8	1 :: TGGTTCTAT	lo 2 IAGTTACCATI	9 GAAGGGCA	30 ATCATCCAGC	40 ICTGGCATTGI	50, 60 CCGGAGATAATAG
COP 1 2 4 5 6 7 8	CGGTGTCT	70 E	9 СТАССТАА АССТАА	90 AAAATCAAAA AAAATCAAAA	LOO 1 ATACTTGTTAA ATACTTGTTAA	10 120 GTGGGGGGAGAGA GTGGGGGGAGAGA
COP 1 2 4 5 6 7 8	1: ТАААААТС/ ТАААААТС/	30 14 AATCATGTTCA	9 TCTAATGT TCTAATGT	150 : AGTTCTACCA AGTTNTNCCA AGTTCTACCA CCA	160 1 GAAAAAACGGA 	TATTTCTGGTGC TATTTCTGGTGC TATTTCTGGTGC TATTTCTGGTGC TATTTNTGGTGC TATTTNTGGTGC TATTTNTGGTGC TATTTNTGGTGC
COP 1 2 4 5 6 7 8	TTATAGGT TTATAGGT TTATAGGT TTATAGGT TTATAGGT TTATAGGT	90 20 FATCCACAACC FATCCACAACC FATCCACAACC FATCCACAACC FATCCACAACC FATCCACAACC FATCCACAACC FATCCACAACC FATCCACAACC FATCCACAACC FATCCACAACC FATCCACAACC	C TGCA TGCATCTT TGCA TGCA TGCA	AAATAACGAT AAATAACGAT	TATAAAGANGA TATAAAGATGA TATAAAGATGA T T T T	210 CCTTAAATAACTG NGATGATAAATA IGATGATAAATA CTTAAATAACTG CCTTAAATAACTG CCTTAAATAACTG CCTTAAATAACTG
COP 1 2 4 5 6 7 8	220 AAACGGAT(AAACGGAT(AAACGGAT(AAACGGAT(AAACGGAT(AAACGGAT(230 STITATTICA STITATTICA STITATTICA STITATTICA STITATTICA STITATTICA STITATTICA	240 ACAGGACA ACAGGACA ACAGGACA ACAGGACA ACAGGACA ACAGGACA	250 CAAGCCCTCTC CAAGCCCTCTC CAAGCCCTCTC CAAGCCCTCTC CAAGCCCTCTC CAAGCCCTCTC	260 CTACGAATTIG CTACGAATTIG CTACGAATTIG CTACGAATTIG CTACGAATTIG CTACGAATTIG	270 TTCGTGGATTGG TTCGTGGATTGG TTCGTGGATTGG TTCGTGGATTGG TTCGTGGATTGG TTCGTGGATTGG
COP 1 2 4 5 6 7 8	280 ATTATTCG/ ATTATTCG/ ATTATTCG/ ATTATTCG/ ATTATTCG/ ATTATTCG/	290 ATAGAGGTAAT ATAGAGGTAAT ATAGAGGTAAT ATAGAGGTAAT ATAGAGGTAAT ATAGAGGTAAT ATAGAGGTAAT	300 ATATGAAA ANNGNNA ATATGAAA ATATGAAA ATATGAAA ATATGAAA ATATGAAA ATATGAAA	310 AAAATCAGTT AAAATCAGTT AAAATCAGTT AAAATCAGTT AAAATCAGTT AAAATCAGTT AAAATCAGTT	320 CCGTTATCGCC CCGTTATCGCC CCGTTATCGCC CCGTTATCGCC CCGTTATCGCC CCGTTATCGCC	330 ATTGCATTATTT ATTGCATTATTT ATTGCATTATTT ATTGCATTATTT ATTGCATTATTT ATTGCATTATTT ATTGCATTATTT
COP 1 2 4 5 6 7 8	340 GGAACTAT GGAACTAT GGAACTAT GGAACTAT GGAACTAT GGAACTAT GGAACTAT	350 TGCAACTGCTA TGCAACTGCTA TGCAACTGCTA TGCAACTGCTA TGCAACTGCTA TGCAACTGCTA TGCAACTGCTA	360 ATGCGGCA ATGCGGCA ATGCGGCA ATGCGGCA ATGCGGCA ATGCGGCA ATGCGGCA	370 GATTTAACTG GATTTAACTG GATTTAACTG GATTTAACTG GATTTAACTG GATTTAACTG GATTTAACTG	380 CAAGCACCACT CAAGCACCACT CAAGCACCACT CAAGCACCACT CAAGCACCACT CAAGCACCACT	390 GCAACGGCAACT GCAACGGCAACT GCAACGGCAACT GCAACGGCAACT GCAACGGCAACT GCAACGGCAACT



Figure S5: Sequences obtained by 5' RACE analysis of *caf1* **transcripts.** The partial coding sequence of *caf1A*, followed by intergenic region III and the coding sequence of *caf1* is shown (*caf1* **op**eron, COP) aligned to sequence data obtained from 8 separate 5' RACE reactions. Regions of similarity are bounded by blue boxes with red text, and regions of complete conservation highlighted in red with white text. The regions corresponding to *caf1A*, intergenic region III and *caf1* are underlined in green, orange and cyan respectively.