

Additional file 5: Table S2 Primers used in this study

Primer use	Primer name	Sequences (5'-3')	Size of PCR product (bp)
Primers used for the construction of <i>P. oxalicum</i> strain TE4-10Δ <i>cxC</i>			
Construction of <i>CxC</i> knockout cassette in TE4-10	PoxCxC-LF	CTTGCTGCTTCCCCTGCCATA	2549
	PoxCxC-LR	TTTAGAGGTAATCCTTCTTTCTAGAGGTCGGCGGTGTAAAGGAAATC	
	PoxCxC-RF	TACCGCTGTTGAGATCCAGTGCCCCTTTGCCCCC	2775
	PoxCxC-RR	TGACGGAGGTGAATCCAATAAG	
	PoxCxC-NF	TTGGTTATGATTGGATTTGCC	5726
	PoxCxC-NR	TCTCATAAACCAACGACGAAA	
	Ble-F	TCTAGAAAGAAGGATTACCTCTAAA	1733
	Ble-R	CTGGATCTCAACAGCGGTAA	
Verification of transformants	PoxCxC-LF	CTTGCTGCTTCCCCTGCCATA	2947
	BlezuojiaoR	ACGAGATCAAGCAGATCAACG	
	PoxCxC-MF	GCTATCATGCTGGGCCTTTT	2791
	PoxCxC-MR	TCCGAGATCGGTCATTTGC	
	BleyuojiaoF	CTCTCAAGGATCTTACCGCT	2807
	PoxCxC-RR	TGACGGAGGTGAATCCAATAAG	
Primers used for the construction of <i>P. oxalicum</i> strain GXUR001			

Construction of <i>CxrC::AmyR</i> overexpression cassette in TE4-10	PoxCxrC-LF	CTTGCTGCTTCCCCTGCCATA	2549
	PoxCxrC-LR	TTTAGAGGTAATCCTTCTTTCTAGAGGTCGGCGGTGTAAAGGAAATC	
	PoxCxrC-RF	TACCGCTGTTGAGATCCAGTGCCCCTTTGCCCCC	2775
	PoxCxrC-RR	TGACGGAGGTGAATCCAATAAG	
	PoxAmyR-NF	TACCGCTGTTGAGATCCAGGCGGTTGTGTAGTGTATTGTGG	3279
	PoxAmyR -NR	GATCCTACACATCGCCTCGAGATGGGCGAGTGGTGAAATAG	
	PoxCxrC-NF	TTGGTTATGATTGGATTTGCC	9005
	PoxCxrC-NR	TCTCATAAACCAACGACGAAA	
	Ble-F	TCTAGAAAGAAGGATTACCTCTAAA	1733
	Ble-R	CTGGATCTCAACAGCGGTAA	
Verification of transformants	PoxCxrC-LF	CTTGCTGCTTCCCCTGCCATA	2947
	BlezuojiaoR	ACGAGATCAAGCAGATCAACG	
	PoxCxrC-MF	GCTATCATGCTGGGCCTTTT	2791
	PoxCxrC-MR	TCCGAGATCGGTCATTTGC	
	PoxAmyRyoujiaoF	CACGGCATCGGAATGGTAAG	3344
	PoxCxrC-RR	TGACGGAGGTGAATCCAATAAG	
Primers used for RT-qPCR			
	RT-actin-F	ATGAGGCACAGTCTAAGCG	303
	RT-actin-R	CCAGAGTCCAGCACGATA	

	RT-amy13A-F	CTGACGGCTGCCCAATG	125
	RT-amy13A -R	CCAAATCGCAGTAAATCCC	
	RT-PoGA15A-F	CCTCGGTGAGCCCAAGTT	165
	RT-PoGA15A -R	CCAAAGTCAATCAAGGCAA	
	RT-amyR-F	ACCCAGCCAGGGAACCAC	132
	RT-amyR -R	CATTCCGATGCCGTGAGC	
	RT-Pox02412-F	TATGTGGATTCTTCCGCTCTA	105
	RT-Pox02412-R	ATGGATTGCCTCCTTGGT	