

Supporting Information

The Multifaceted Gene 275 Embedded in the PKS-PTS Gene Cluster was Involved in the Regulation of Nematicidal Activity, Arthrobotrisin Biosynthesis, TCA Cycle, and Septa Formation of Nematode-Trapping Fungus *Arthrobotry oligospora*

Jiao Zhou^{1,2}, Qun-Fu Wu,^{1,2} Shu-Hong Li,¹ Jun-Xian Yan,¹ Li Wu,¹ Qian-Yi Cheng,¹
Zhi-Qiang He,¹ Xu-Tong Yue,¹ Ke-Qin Zhang,¹ Long-Long Zhang,¹ Xue-Mei Niu,^{1*}

State Key Laboratory for Conservation and Utilization of Bio-Resources & Key Laboratory
for Microbial Resources of the Ministry of Education, School of life Sciences, Yunnan
University, Kunming 650091, People's Republic of China

Jiao Zhou, Qun-Fu Wu, contributed equally to this work.

Table S1. List of primers for 275

Gene	Primer	Sequence (5'-3')
275	275up-F	GAGCTCGGTACCAAGGCCGGGACTTATCAATTAGGGCTCAC
	275up-R	AGGCCTGATCATCGATGGGCCAACAAATCGGAATAGGGT
	275down-F	TCTAGAGGATCCCCGACTAGTCCCAGCATATTAGATAGAG
	275down-R	CACGAAGCTTGCATGCCTGCAGGTTCTCACATAATCCGTCA
	275yz-5f	CGTGAATT CAGCCTCATGAGC
	275yz-3r	AGGTACCACGTTGACGAAGG

Table S2. List of primers for OE-275

Gene	Primer	Sequence (5'-3')
275	275-5f	ATGTTCACTTCTCTCGCTTTCTATG
	275-3r	TTATAGAATAACACAATCACTCCAAGTTGGATAGAG
	PUC-5f	GAAGAGAAAGTGAACATATCGATGCTGGTAGAATAGGT
	PUC-3r	TGTGTTATTCTATAACCACCTAACGTTACTGAAATCATC
	275yz-5f	AAGCAAGGTAAGTGAACGACCC
	275yz-3r	AACTCCGGAGCTGACATCG
	275RT-5f	CTCTAAGTTCAAGCATCGGAC
	275RT-3r	ACGGATAGAGGAGGCAATG
	β-tubulin-5f	CCACCTTCGTCGGTAACTC
	β-tubulin-3r	TCGTCCATACCCTCACCAAG