

两株山羊源伪结核棒状杆菌毒力与耐药特征及比较基因组学研究

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Virulence, Antimicrobial Resistance, and Comparative Genomics of Two Goat-derived *Corynebacterium pseudotuberculosis* Strains

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附表

附表 1 伪结核棒状杆菌 PCR 引物鉴定表

Table 1 PCR primers for identifying *Corynebacterium pseudotuberculosis*

基因名称	序列	用途	产物长度	退火温度
Gene name	Sequence (5'-3')	Purpose	Products length (bp)	Annealing temp (°C)
16S rDNA	R: ACCGCACTTTAGTGTGTGTG	PCR	816	55
	F: TCTCTACGCCGATCTTGTAT			
PLD	R: TCACCACGGGTATCCGC	PCR	924	53
	F: ATGAGGGAGAAAGTTGTTTA			

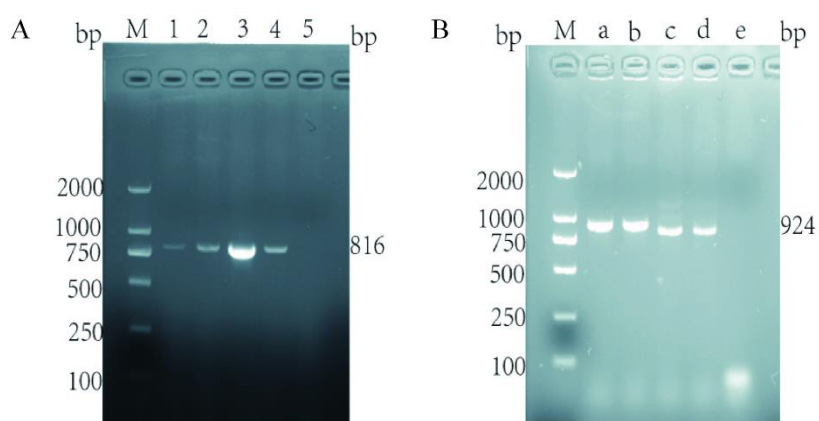
附表 2 毒力基因引物

Table 2 Primers for the virulence gene

基因名称	序列	用途	产物长度	退火温度
Gene name	Sequence (5'-3')	Purpose	Products length (bp)	Annealing temp (°C)
sigE	SF: GGAGCAGGCCTATAACATCG	PCR	235	55
	SR: TTGGGCGTCTTCATTAGTCG			

<i>spaC</i>	SF: ATATATCCGCAGCTTGCACC SR: CTGCAATCACAAAACGGTC	PCR	252	55
<i>nanH</i>	SF: TGCAGTGGGGGAGGGTA SR: TTTCGTGTTCTCGTAAGGCG	PCR	624	57
<i>pknG</i>	SF: TGGTGGTATGGGTGGATCT SR: TCAACGCGGTGATCATCAAT	PCR	198	55
<i>sodC</i>	SF: AACTACCTCAAGATGCGCTG SR: CTCAAGAATCAATCCGGCGA	PCR	270	55
<i>oppA</i>	SF: CGGCTAAGGACTTTTCCTCC SR: GTTTACCCGACGCAGAGATT	PCR	237	55
<i>oppB</i>	SF: TGTGCGGTTAAATGGGGAA SR: ACGGGAATCAACGAGTTACG	PCR	237	55
<i>oppC</i>	SF: ACGGACATCCTTTTGGCTTT SR: TAACAACGATCGCCGCTAAA	PCR	231	54
<i>oppD</i>	SF: GCTTTGATCGTCAAGGTTGC SR: ACTGTGCGTTCCTGCTTAAA	PCR	244	54
<i>oppF</i>	SF: CCTCGTCAAATCTCTGGTGG SR: ACATGCGATCGGAAACGTAA	PCR	223	55
<i>copC</i>	SF: CCAAGGTCGCTTTCTCTGGT SR: CCCGCCACCGTAAAAGTAGT	PCR	242	58
<i>fag-A</i>	SF: AGCAAGACCAAGAGACATGC SR: AGTCTCAGCCCAACGTACAG	PCR	245	56
<i>fag-B</i>	SF: GTGAGAAGAACCCCGGTATAAG SR: TACCGCACTTATTCTGACACTG	PCR	291	55
<i>fag-C</i>	SF: GTTTGGCTATCTCCTTGGTATG SR: CGACCTTAGTGTTGACATACCC	PCR	173	54
<i>fag-D</i>	SF: GAGACTATCGACCAGGCAGA SR: ACTTCTTGGGGAGCAGTTCT	PCR	226	56

附图



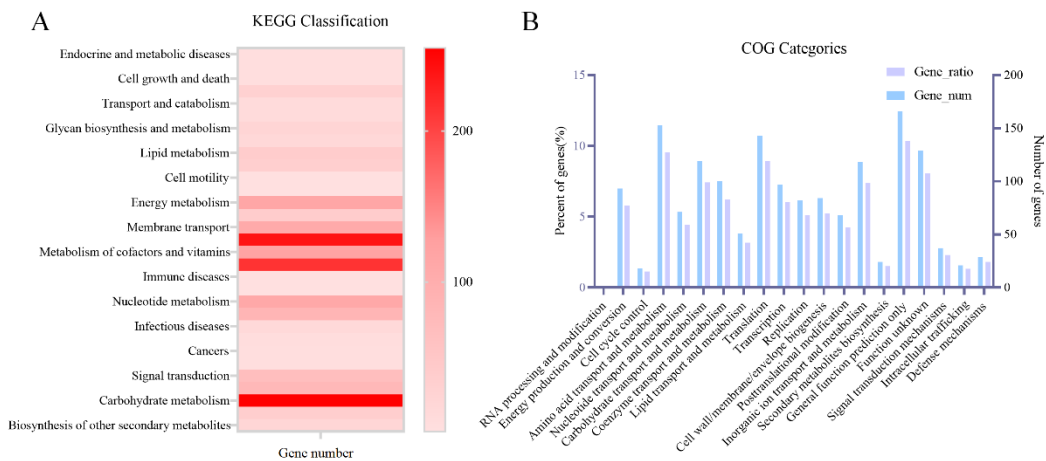
A: 16S rRNA PCR 扩增; B: *PLD* 特异性引物 PCR 扩增; M: DL2000 Marker; 1-4: 分离菌株; 5: 阴性对照; a-d: 分

离菌株; e: 阴性对照

A: 16S rRNA PCR amplification. B: PCR amplification with PLD-specific primers.M: DL2000 DNA Marker. Lanes 1–4: Isolated strains. Lane 5: Negative control. Lanes a–d: Isolated strains. Lane e: Negative control

附图 1 16S rDNA 和 *PLD* PCR 扩增图

Appendix Fig. 1 PCR amplification of 16S rDNA and *PLD*

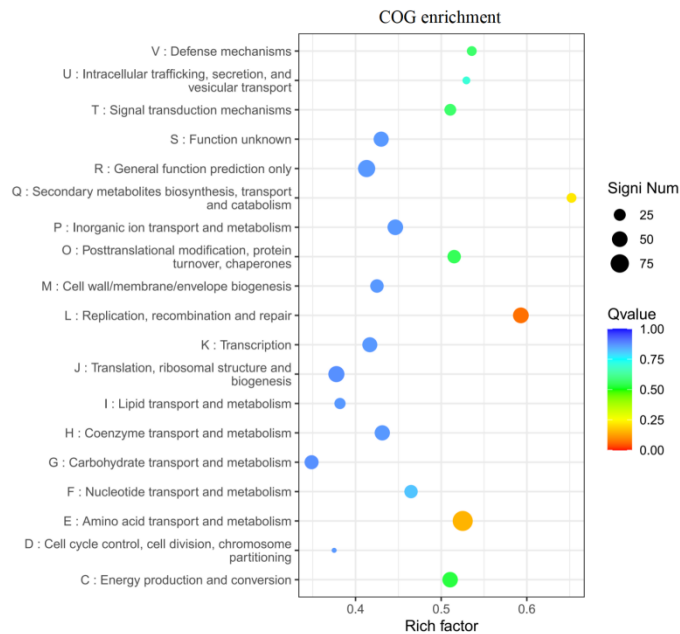


A: KEGG 通路功能分类注释结果; B: COG 蛋白功能分类注释统计

A: KEGG pathway functional classification of annotated genes. B: COG functional category distribution of annotated genes

附图 2 KEGG 和 COG 数据库的注释结果统计

Appendix Fig. 2 Statistics of annotation results for KEGG and COG databases



附图 3 COG 功能分类富集气泡图

Appendix Fig. 3 COG functional category enrichment bubble plot