

KmHP CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATAAGCTAGCCATCGGGGCGCG 60  
 PL1-01 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATAAGCTAGCCATCGGGGCGCG 60  
 PL1-02 CGCTTGCAGTTTCATTTGATGCTCGCTGAGTTTTTCTAGTTTGCTAGCCCTCGGGGCGCG 60  
 PL1-03 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATGGGCTAGCCATCGGGGCGCG 60  
 PL1-04 CGCTTGCAGTTTCATTTGGTGCTCGATGAGTTTTTCTAATGAGCTAGCCATCGGGGCGCG 60  
 PL1-05 CGCTTGCAGTTTCATTTGATGCTCGGTGAGTTTTTCTAATCTGCTAGCCATCGGGGCGCG 60  
 PL1-06 CGCTTGCAGTTCCATTTGATGCTCGGTGAGTTTTTCTAATAAGCTGGCCATCGGGGCGCG 60  
 PL1-07 CGCTTGCAGTTTCATTTGATGCTCGTTGAGTTTTTCTAATAAGCTAGCCATCGGGGCGCG 60

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Regenerated *Kan<sup>R</sup>* 3' end

GC

KmHP CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGCCGAAAGGCCCGC 110  
 PL1-01 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGCCGAAAGGCCCGC 110  
 PL1-02 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGCCGAAAGGCCCGC 110  
 PL1-03 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGCCGAAAGGCCCGC 110  
 PL1-04 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGCCGAAAGGCCCGC 110  
 PL1-05 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGCCGAAAGGCCCGC 110  
 PL1-06 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGCCGAAAGGCCCGC 110  
 PL1-07 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGCCGAAAGGCCCGC 110

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WT Hairpin