

KmHP CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATAAGCTAGCCATCGGGGCGCG 60
 LY1-01 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAGTGAGCTAGCCATCGGGGCGCG 60
 LY1-02 CGCTTGCAGTTTCATTTGATGCTCGGTGAGTTTTTCTAATAAGCTAGCCATCGGGGCGCG 60
 LY1-03 CGCTTGCAGTTTCATTTGATGCTCGGTGAGTTTTTCTAATGGGCTAGCCATCGGGGCGCG 60
 LY1-04 CGCTTGCAGTTTCATTTGTTGCTCGATGAGTTTTTCTAATGAGCTAGCCATCGGGGCGCG 60
 LY1-05 CGCTTGCAGTTTCATTTGATGCTCGGTGAGTTTTTCTAATAAGCTAGCCTTCGGGGCGCG 60
 LY1-06 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATGAGCTAGCCATCGGGGCGCG 60
 LY1-07 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATGAGCTAGCCATCGGGGCGCG 60
 LY1-08 CGCTTGCAGTTTCATTTGTTGCTCGATGAGTTTTTCTAGTAAGCTAGCCCTCGGGGCGCG 60
 LY1-09 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAGTAAGCTAGCCATCGGGGCGCG 60
 LY1-10 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATAAGCTAGCCATCGGGGCGCG 60
 LY1-11 CGCTTGCAGTTTCATTTGTTGCTCGATGAGTTTTTCTAATAAGCTAGCCATCGGGGCGCG 60
 LY1-12 CGCTTGCAGTTTCATTTGATGCTCGGTGAGTTTTTCTAATAAGCTAGCCATCGGGGCGCG 60
 LY1-13 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAGTAAGCTAGCCATCGGGGCGCG 60
 LY1-14 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATAAGCTAGCCATCGGGGCGCG 60
 LY1-15 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATAAGCTAGCCATCGGGGCGCG 60
 LY1-16 CGCTTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAATAAGCTAGCCGTCGGGGCGCG 60

 Regenerated *Kan^R* 3' end GC

KmHP CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-01 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-02 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-03 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-04 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-05 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-06 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-07 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-08 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-09 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-10 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-11 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-12 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-13 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-14 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-15 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110
 LY1-16 CGGCGTCTGTGACCACCTGATTCTTGAGTAGCGGGGCCGAAAGGCCCCGC 110

 WT Hairpin