NIT1-ami

12935

22

BsaBI

43

EcoRI

391

FseI

843

BstBI

1439

Asp700

1950

PvuI

2182

AseI

2378

HindIII

3874

PshAI

4135

Sse8387

6611

KpnI

6854

Asp718

6854

HpaI

8628

AvrII

8968

Sse8647

9218

SanDI

10672

StuI

10803

BamHI

11876

XbaI

11922

BstEII

11928

ClaI

12509

SpeI

12800

0

0

RPL12 3’ UTR

C\_310026 3’UTR

XbaI

SpeI

NheI-XbaI

sequence

GGTGTGACAGAGTTACGGCCGGAGCCAGCGGAGTCCCGGGATGGATTAAGGATCCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAGGTGACCCGCCAGCCCCCGCTCCTCTGCTGCCTCTGATGCCTCATGCCAAAAGTCCTGACGCGGCGCCCTCACATCCCCGTCCGGGTAATCTATGAGTTTCCCTTATCGAGCATGTACGCGATAGTGGACGGGGCTCAGGGTGGGGGGTGGGTGGGTGGGAGGGGCGTTCCTTCAGACACCCTGGAGGGGTGGCTAGAAAAGCGGCCGCGCGCCAGAAATGTCTCGCTGCCCTGTGCAATAAGCACCGGCTATATTGCTCAGCGCTGTTCGGCGCAACGGGGGGTCAGCCCTTGGGAAGCGTTGGACTATATGGTAGGGTGCGAGTGACCCCGCGCGACTTGGAGCTCGATGGCCCCGGGTTGTTTGGGGCGTCCGCCTCTCGCGCTATTCTGAGCTGGAGACCGAGGCGCATGAAAATGCATTCGCTTCCATAGGACGCTGCATTGTGGCTTGAAGGTTCAAGGGAAGGGTTCAAACGACCCCGCCGTACGAACTTTTGTCGGGGGGCGCTCCCGGCCCCGGGCTCTTGTGCGCGCATTAGGGCTTCGGGTCGCAAGCAAGACGATACAGGAACCGACCAATCGATAGTCTTGTGCGACCGTGCACGTGTGCAGCAATAGTTAGGTCGATAACCACGTTGAACTTGCGTCTCTCTTCGTGGCGCCTCCTGCTTGGTGCTCCACTTCACTTGTCGCTATATAGCACAGCGTTGAAAGCAAAGGCCACACTAATACAGCCGGGCTCGAGAGTCCGCTAGAGGTGTTGGGTCGGTGTTTTTGGTCTTGGTTGGGGTGTTGGTGGTGCTGGTGGAACATGTCAACATGCCCAGGAAACCAAGGCGCGCTAGCTTCCTGGGCGCAGTGTTCCAGCTACTAGTAGCCGGAACACTGCCAGGAAGGAGGGGGAGGCTGGGTGGGAGAAGCGGTGTGGGGCGGATTAGCCTTGGAGACCGATTGCTTTGGGTTAGTTTGGGCTGGCATAGTTTGGGCTGGCTTAGTTACACCGAATTGTAAGCGCGGGGCGTGTTGCAGCGGCAGGGAAGAGCAGCTGATGATGATCAAGGGTGTGCTGTAACGTCTGTGCGAAGTAAATGCGCCTCTCTTCCTGGGACTGGGGTGCAGAGCGGAGTAGATTCAGCCTCAGCAGCGGGGGCGGGGGCAGCCGGCAGCAGATTCAGAGCTGCACGAGCAGAGGAGCAGCAGTCGGCGCTACGTCATGGGCGCGTCTCTGTCAGCGTGGCAGCAGGAGTTCAGCTGACAGAATGCCTCGAGTGCTGCCAGCGGCCGGGAGAGCCGGACATTGCACATGTCAGTGCTTGCTACGCGAACTGCTGGCGGGCGAGCAATACGAACTGGTGCGTGGGGTCGGGAGCAAAGTATCCATGGCACGTTGACGGCGAATTCGGTTTTCTCGGGGAGACACCAATCATTCATAGCAAACAACGCAAAGTACGTGTTTGGGAATGCACCTGTTAGGAAACCGCATACCCAGTGCAAGTACTACAGCAGCCCACAGCAGCAACAAATATTCAGCGCTTGTCAGAGCTCAGCCTCAGGCAGGCATCTGAACCTTTCGCCGGTGAGTTCCTGGCACGTGTGCATGTCCGTGCCGTTCTCCTCTTACCGCACCTATCCTTGCTGTCCTCCTGTTGCTCTTCCTAATGCACGATGCCGCCACACGTGCCTAACCCACTAATCCCTACTGCTAGTGCATCTGCGTGCCTTGCTAGCTTCCAATCAATAGCTATGGACGGCGGAGCGTGTGCCCCTACGTGGACCCGACTTCGCAACATCCGCTACAGTCATGCACCTTCGGACTGCAAATGCGCAGGCGGTCCGCAACGCGCGATGGCCGGCCCCATGCAGCTTCTTAGAGCGGACGGAGAGCAACAGGGGGCGGCAGCCAGGCGGTGCTCACAATTCCGTATGGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTTTTCCATGAGCAAACTGAAACGTTTTCATCGCTCTGGAGTGAATACCACGACGATTTCCGGCAGTTTCTACACATATATTCGCAAGATGTGGCGTGTTACGGTGAAAACCTGGCCTATTTCCCTAAAGGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATCCCTGGGTGAGTTTCACCAGTTTTGATTTAAACGTGGCCAATATGGACAACTTCTTCGCCCCCGTTTTCACCATGGGCAAATATTATACGCAAGGCGACAAGGTGCTGATGCCGCTGGCGATTCAGGTTCATCATGCCGTTTGTGATGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCGTAATTTTTTTAAGGCAGTTATTGGTGCCCTTAAACGCCTGGTGCTACGCCTGAATAAGTGATAATAAGCGGATGAATGGCAGAAATTCGAAAGCAAATTCGACCCGGTCGTCGGTTCAGGGCAGGGTCGTTAAATAGCCGCTTATGTCTATTGCTGGTTTACCGGTTTATTGACTACCGGAAGCAGTGTGACCGTGTGCTTCTCAAATGCCTAGACGAAAGGGCCTCGTGATACGCCTATTTTTATAGGTTAATGTCATGATAATAATGGTTTCTTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTAAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGGATCATGTAACTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGATGCCTGCAGCAATGGCAACAACGTTGCGCAAACTATTAACTGGCGAACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACTGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAAACTTCATTTTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAAACCACCGCTACCAGCGGTGGTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTCCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCATTGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCCGAGATGCGCCGCGTGCGGCTGCTGGAGATGGCGGACGCGATGGATATGTTCTGCCAAGGGTTGGTTTGCGCATTCACAGTTCTCCGCAAGAATTGATTGGCTCCAATTCTTGGAGTGGTGAATCCGTTAGCGAGGTGCCGCCGGCTTCCATTCAGGTGGAGGTGGCCCGGCTCCATGCACCGCGACGCAACGCGGGGAGGCAGACAAGGTATAGGGCGGCGCCTACAATCCATGCCAACCCGTTCCATGTGCTCGCCGAGGCGGCATAAATCGCCGTGACGATCAGCGGTCCAGTGATCGAAGTTAGGCTGGTAAGAGCCGCGAGCGATCCTTGAAGCTGTCCCTGATGGTCGTCATCTACCTGCCTGGACAGCATGGCCTGCAACGCGGGCATCCCGATGCCGCCGGAAGCGAGAAGAATCATAATGGGGAAGGCCATCCAGCCTCGCGTCGGGTCGACTCGAGCTCAAGCTTCCCGAACGCCAGCAAGACGTAGCCCAGCGCGTCGGCCGCCATGCCGGCGATAATGGCCTGCTTCTCGCCGAAACGTTTGGTGGCGGGACCAGTGACGAAGGCTTGAGCGAGGGCGTGCAAGATTCCGAATACCGCAAGCGACAGGCCGATCATCGTCGCGCTCCAGCGAAAGCGGTCCTCGCCGAAAATGACCCAGAGCGCTGCCGGCACCTGTCCTACGAGTTGCATGATAAAGAAGACAGTCATAAGTGCGGCGACGATAGTCATGCCCCGCGCCCACCGGAAGGAGCTGACTGGGTTGAAGGCTCTCAAGGGCATCGGTCGACGAGGAGGAGGTGCAAGGGGGATACCAGCGCGTGTTTCTCAGGGCCTGTGTGGGACACCGAAACGTGGTAAAAGAGACCCGCCCGCGAACTGTGTATGTGGAGTAGCGTGGCGTGTGCGGCCGGACCGACAAGGCAGCTTGTGGACTGCCCCACGTTGCAGAGTCAGCTGACAACGACACGTGCGCCTTCCTGTCATTGCCCGTGCGCACGCACGTCCTCCGCACTCCCAACAAATTGACAGCGACACGTGCGCCTTCCTATAAGCCTATGCCCGCACACGCTCCCGCGCCCTCAGGTGTCGGGCCAGACCACAGACCGGTTGGTCCACGAGTGCGAGGAGGATGAGGCGGGCGGCTGCGGCGGCGCCGGCGGGGCGCCGCGGCGAGGAGGACGGCCTGGGACTGGGCATCACAGGTGGGTGGCAGGCTGGCAGGGACTCACGCATGGGCCTTGTACGTGACTGCGGTTCTGCATGGCTAGTGGCTCACGCGCTGCGCACGTTCACGTACGGCTTGTGGGCATGCAGTGCCTTGACGTGAGGCTGCGCTGCCTTGCTGCTGCCGCCTTGCCCCGCTCCCTGCACACACTGCAGCCGGCTTCGGGCGCTACTTCACCGCGGGCTACGAGTGCGAGAACGCGCAGCAGCTCAACAGGCTGCTGGGGTACAAGGCGCTGTGAGAGCGCGCCGCAGGGGGAGTGTGTTCATATTGTGGTTGTTTGGGCCGTGGGCGCGGGCTGCATGTGCGTATTGCACGCGTACAGCATTGGTGACTGGTCAGGTGTAAGCGGCCGGCAGTGCGCCGCGAGGCGCTGCAGCGAGTTGTGGGGCATGCGTCATGCGCAGACGGCCCCTGGACGACAAGGCGTTGAGTTGGCGTTTGGAGGTGTGGGACGACGTGGGGTTTGTGCCGTCAAAGCACAGAACAGAAGGCGTGACCGTTTTACGAGCTCGTATGATGTAGCATGGATTGAATAATGACATGTGATTTTTGTTACAAGCGACGAATGCGTGGGGTTTTGGATGGCAGGGGTTTCAGTCGCCCGATTGCGCATGCACACGTGACCAAATTTATGCTCAACGACGTGACCATTGCTTTATACATACTTGTGTATCGGTTGGCACTTATAACAATTGGCTCGTCAAATTGACGCGAGGCTGCACTTCGATCCTGAAAGCCCCAGTTCAACAAGTCGGATAGCCAAATGGCCCCGCTCGCTCTCCAGCATCAAGGGGCCTCTAAGTGCCTCGCGGCAACCCAGCGCAAGTGTGCTCGCGTTGCGGTGAGCTGGACTCGTGCACTTGTCGACGCCGTCGGCACCGCAATCGAAAGACGCGTGCGTCGAGCAATTGTGGAAGCCGCTGACGAATTGTCCGCATGTGACATTGCAGGCTCGCGTCCCCGCTCGTCTCAGCGTCATGGCCCAGGTGCGGACGTTGGGACTGCACTTGCACGAATGTGATGGGGCCGCACCGAGTCTGCGCGGACGTCTCGCTGACGTTTCGCGTTGAATGCATCTCGCAATAGGCAGCTGCTGCGCCTGCTGACAACACTAAGAAGCTGTGGGGCGGTCGCTTCACGGGCAAGACGGACCCGCTCATGGAGAAGTTCAACGAGTCGCTGCCCTTTGACAAGCGCCTGTGGGCTGAGGACATCAAGGTGCGGCACAGGGAGGGGGGCGAGTGGTGGGGTGGGGCTGGGGGGGACGCGGGTTTGGTGGCCAGGGCAGGGAGGGAAGACGTGCGGGGCTAGGCAAGAGGCTGCGAGGGCCCAGGGTAACACCAGACCGTGCCGTGTCGCGTGCCCGGCTTGCTGCCCACCTTGCCCGGCCATCCCCACCGCCCTCCCCACCAGCAATGACACGTACACATTCACACACTCCCCCACACCCACATACCCACACACCCACGCATTCCCCAACAGGGCAGCCAGGCGTACGCCAAGGCTCTTGCCAAGGCCGGCATTCTGGCACATGACGAGGCCGTGACCATTGTGGAGGGGCTGGCCAAGGTGCGCACACCCGGCAGCAGGGCGGGTGGGTGGGTGGGTGGGGTGGGGGGGCAGAGAGAGGCGCGGGCTGAGAGGGGGCTGAGAGGGGGGTCAGCGAGGCGCAGGCTCAGGGGGAGGCGTCTGAGGGGGGCTGAGATGGTGGTGGGGGAGCTGCGGGTGCTGGGGCTGCTGCGGTGGCGGGCGGGCGGGCGGGCGGGCGACGTGTACGTGAGTAGCCGCTGACCGGGCGCTGGGCCTTTGCGCACGCCACAGCCCACATGACACCGCCGCAAGGCCCGCCGCGCCCCACCCACGTTCACACACTCCCCACACCCACGCGTGCGCGCGCCTCCTTCCCCTCAATACACGCGCCTCCTTCCCCTGGCCCCCGCCTGCTCCCCCCATCCGGCCGCCCCGCCTGCAGGTGGCTGAGGAGTGGAAGGCGGGTGCCTTTGTGATCAAGGCGGGTGACGAGGACATCCACACGGCCAACGAGCGGCGCCTCACGGAGCTGGTGGGGGCGGTGGGCGGCAAGCTGCACACCGGCCGCTCGCGCAACGACCAGGTGAGGGTGGGTGGGTGGGGGTGGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGGGTTTGAGATACCGGTACCAGGCCAAACTAAACCGAACCCAAGGGGGTGGCGTAGGGGCGTGGGAGGGGGGGAGTGCGGAAGCCGGGAGGCAGGAGTAAGGGCGGGAGGAGGGGGCCGGAGGAGAAGCAGGGACGAAGTCGATGACAGGCGCAGTCGGTGGCGGCGGTGGCGGGTGTGCCGTTGTGCAGTGGCTGTGGAGGCCATGTGCAGGGCGGCGGCGGGGCCGGGCCGGGGGTGGGAGACTTGTCCAGACCCCGTGGCCCTCTTCCAGCCCCGTCCGCCACTGCCGCCACCACCACCGCCGCCGCCGTAGCCACCACCCCTCACGTCGAGGCACTTCACAGATGCGAAGCAACCACACCGTTCTCCACATGAACAGCTACCCTCCCAAACCCAACTTTCCCTTCCCGCCTTACCTAACCATGACCCGCTACCCCCCCCCCCTTTATTTCTTAACTAACCATGAATGCCCCCCCCCGGCTGTACCTGGCTACGACTTCACTTCGTAAACTTAATGTGTGTAACCCCCCTTACACACACACACACACCCCTCCCCGCCCCTCCAAAGGTTGCCACCGACTACCGGCTGTGGCTGGTGGGTCAGGTGGAGGTGATGCGGTCCGAGGTGGGCGAGCTGATGCGCGTGGCGGCGGACCGCTCCGAGGCAGAGGTGGAGGTGCTCATGCCGGGTGAGGGGGCAGGGAGGGGGGGAGGGGGAGGGGGAGGTGCTCATGCCGGTGAGGGTAGGGAGGGGAGGGGCAGAGGAGGGAGGGGGAGGAGGGGGCGGCTGAGTGCGGGAGAGGCAGGGATGAGGGCGATAGAAAGTTGCGTATTGTCGGTAAACTCAAAGGACTAGACGAAGAGAACAAACCTAAACAAGGGAGCTGGAGCGAGGCCAAATCTGAACGTGACATCGCCCGCCTCCTCCCGCTGCCTGCTCCCCCACCTCCTCCCCCATCTCGCCCCCCCCCCCACACACACACAGGCTTCACGCACCTTCAGAATGCCATGACTGTGCGCTGGAGCCACTGGCTGATGAGCCACGCCGCGGCCTGGCAGCGCGACGACATGCGGCTGCGGGACCTGCTGCCGCGGGTGGCCACACTGCCGCTGGGCTCGGGTGGGTGAGGGAGGGGAGGGGAGGGGAGGGGGGGAGGGGGAGGGAGAGGAGGGGAGAAGGGGGGGGGAGACGAGGAGGGTGGAAGGGTGGGGGCGGGGCGGTGGAGGCTAGAGGGTGGGGCTGGGTGGGTGGACGGAGTGCACTGGTAGAGGAGGGATAGGGTACATTGAGACGGGAGGAGGGATGCAGGGGCGAAGGTGGGGAGGAGGGGAGGGGAGGAGGCGTGGAGCTGGAGTGGGCCGACGAGTGTGCGGACGGGGCAGGCGGCAACGGGGATTAAACGGCGGGGGGCCGGGGCGTGTGCACGACAGGGGCTTGCGCGTCTGCGATTGTGGGGGCACACAGGGACAGGAGCACGACGTGGGACACGCATAGATACGCCGCATTGACAACACACACACACACACACACACACACACACACACACACACACACACAAACACAAACACACACAAACACAAACACACACACGCCCCCCCCCCTACACACACGCCCCCTCCCCAGGCGCCCTGGCCGGCAACCCCTTTCTGGTGGACCGCCAGTTCATCGCCAAGGAGTTGGGTTTCGGCGGCGGCGTGTGCCCCAACTCCATGGACGCGGTGAGGGGAGGAGGAGGGGGAGGAGGGCGGGGGGGGGCAGGAGGGGGGAGGAGGAGGGGGGGAGGGGGTTAACTTTGAAGCGTAAGGAAACAGTCGGGAGGAGGGGGGGAAGGAGGGGGCCTGGAGGAGGGGGGGAGGAGGAGGGTGGCTGGAGGGGGCTGGGGGAGGAGGAGGGGGAGGATTGGGAGGGGGCTGGGGGAGGGTGCCCGCAGCTGGGGGAGGTGGGGAGGGAGGGGGTTGCTGCTGGTGTAAAGGGCCTGTAGGCACTGAGAGCACTGTGGGGAGCCGGGGTACTGCCTGGGGCCCCGCGCTGCAGAGGTGTCGCGCAGTG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description

Ligation of PHUNARG.TXT\* and 287-ami\*