hRPL13A-PQR-RFPnols-loxP-PQR-zeocin-loxP-PQR

mRPL13A genomic sequence

5’arm

vP2A

RFP

loxP

nols

zeocin

3’arm

**AseI**

**ATTAAT**

TCTGACTGGGCCTGCTATCTGTCACCC

AACAGGTATGCTGCCCCACAAAACCAAGCGAGGCCAGGCCGCTCTGGACCGTCTCAAGGTGTTTGACGGC

ATCCCACCGCCCTACGACAAGGTGAGCTATGCCAAACCCCACAGGCAGCGGCCTTACCTGTGGCGTCCAT

GATGTTCCGCAACTACCTACATTGTTTGATCCTCATGAAAGCAGCACTGGCTGAGACGCCAGTCCAGCCG

ACCTCCTTCCCTGTCTGTCCCTCCCGGGCTCTTAAGCCCCTCTCTTTCTCTAACAGAAAAAGCGGATGGT

GGTTCCTGCTGCCCTCAAGGTCGTGCGTCTGAAGCCTACAAGAAAGGTGAGTCCCAGCTTACGCTGCACC

ATCTACTTGGGAGATTTCAGGCCTGCTGAGGGACCTGGGGACCTGGAGCCTGGCAGATGATGTCCTTATC

TCACGATGGTCTGCGGATGTCCCTGTGGGAATGGCGACAATGCCAATGGCTTAGCTGATGCCAGGAGGCT

TGGGTGGGTGCTTTTCTAACAGGCCTGCAGAGAACAGTTGCATTATGATATGCCCAGCTGTCAGTCACCT

CCCAGCTCTCAACAGCTCCGGCTCTTCAGGGTGTGGGGGCTTAGATATCCTTACAACTTCATTTGTTCAC

CCCCCCCCCCCCCCCCCGCAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGG

CAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCT

CATGGTGAGGCCAGGGGCTGGTGCTGAGGGGGGCATCTCACTCCTGGACAGGCCTGGCAGGTGCCTTGCT

CACAGAGTACTCTTAACTGGCAAAGGACCAGCCGGGGTTGGGGTGGGATGCAGTCCATGTAATGAGGGCA

ATGCAACCCCTCCTGACCACCACCACCTGCACTTATTCTTGGCAGAGGCTACGGAAACAGGCCGAGAAGA

ACGTGGAGAAGAAAATTGACAAATACACAGAGGTCCTCAAGACCCACGGACTCCTGGTC

ggaagcggagcgacgaattttagtctactaaaacaagcgggtgatgtagaagaaaaccctggac**ct**

ATGGTGTCTAAGGGCGAAGAGCTGATTAAGGAGAACATGCACATGAAGCTGTACATGGAGGGCACCGTGAACAACCACCACTTCAAG

TGCACATCCGAGGGCGAAGGCAAGCCCTACGAGGGCACCCAGACCATGAGAATCAAGGTGGTCGAGGGCGGCCCTCTCCCCTTCGCCTTCGACATCCTGGCTACCAGCTTCATGTACGGCAGCAGAACCTTCATCAACCACACCCAGGGCATCCCCGATTTCTTTAAGCAGTCCTTCCCTGAGGGCTTCACATGGGAGAGAGTCACCACATACGAAGACGGGGGCGTGCTGACCGCTACCCAGGACACCAGCCTCCAGGACGGCTGCCTCATCTACAACGTCAAGATCAGAGGGGTGAACTTCCCATCCAACGGCCCTGTGATGCAGAAGAAAACACTCGGCTGGGAGGCCAACACCGAGATGCTGTACCCCGCTGACGGCGGCCTGGAAGGCAGAACCGACATGGCCCTGAAGCTCGTGGGCGGGGGCCACCTGATCTGCAACTTCAAGACCACATACAGATCCAAGAAACCCGCTAAGAACCTCAAGATGCCCGGCGTCTACTATGTGGACCACAGACTGGAAAGAATCAAGGAGGCCGACAAAGAGACCTACGTCGAGCAGCACGAGGTGGCTGTGGCCAGATACTGCGACCTCCCTAGCAAACTGGGGCACAA*ACTTAATGGCATGGACGAGC*TGTACAAG**ggcaaaaagaaaggccggactcaaaaggagaagaaagctgctcgtgctcgttccaaagggaaaaactcggatgaagaagcccccaagactgcccagaagaagttaaagctc**

TTATAACTTCGTATAGGATACTTTATACGAAGTTAT

ggaagcgga**GCGACGAATTTTAGTCTACTAAAACAAGCGGGTGATGTAGAAGAAAACCCTGGACCT**

**ATGGCCAAGTTGACCAGTGCCGTTCCGGTGCTCACCGCGCGCGACGTCGCCGGAGCGGTCGAGTTCTGGACCGACCGGCTCGGGTTCTCCCGGGACTTCGTGGAGGACGACTTCGCCGGTGTGGTCCGGGACGACGTGACCCTGTTCATCAGCGCGGTCCAGGACCAGGTGGTGCCGGACAACACCCTGGCCTGGGTGTGGGTGCGCGGCCTGGACGAGCTGTACGCCGAGTGGTCGGAGGTCGTGTCCACGAACTTCCGGGACGCCTCCGGGCCGGCCATGACCGAGATCGGCGAGCAGCCGTGGGGGCGGGAGTTCGCCCTGCGCGACCCGGCCGGCAACTGCGTGCACTTCGTGGCCGAGGAGCAGGAC**

**TT**ATAACTTCGTATAGGATACTTTATACGAAGTTAT

Ggaagcgga**GCGACGAATTTTAGTCTACTGAAACAAGCGGGAGACGTGGAGGAAAACCCTGGACCT**

ACCGGTTGCGGCCGCCTCGAGTCTAGAACTAGTTGATCA

AgeI-NotI-XhoI-**XbaI**-SpeI-BclI

TGAGCCCAATAAAGACTGTTAATTCCTCATGCGTTGCCTGCCCTTCCTCCATTGTTGCCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGTGCCACAGGCAGCCCTGGGACATAGGAAGCTGGGAGCAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAATTGTGCAGGTGTCATTTATCTATGACCAATAGGAAGAGCAACCAGTTACTATGAGTGAAAGGGAGCCAGAAGACTGATTGGAGGGCCCTATCTTGTGAGTGGGGCATCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGCAAGCACTTGGGGACAGCATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGCACAACCAAGGGG

TTACAGGCATCGCCCATGCTCCTCACCTGTATTTTGTAATCAGAAATAAATTGCTTTTAAAGAAATCTGG

CGTCTTTGCACTGTGTCTGCTGTGGAGGCAGGCCCCTGGCAAATGGGGGGTGAGGAGCTTGAAGAGGGTA

GAATGGGCTGTGCTAATATACAGAATATATGTAACTTGCTATAAATTGAATGATCCTTTATAGACACCGT

TTACAAACCAAAGACATAAAATGTGGCCAGCAGTGCCTGGTGCTTCCTAGTTAATGTAAAGCTGTCTCAT

TCTAATTCAGCTGCAAAGTATGGACCCATGCCCTGCTGCCAGGCTGCTGTAGTCCCGGCGGTCTGTAGAG

ACTAGCATTTTGCAAATGATAAGCACTAGAATAACAGATAACGCTAGGCTTTATGCACTAAGAGAACCCA

TTAGATCTGCCAGTCTGAATCCCAGAAAGGGCACTGATACAGAGCATTTAGTACTAGGTAGCAATTTCAT

AAAATGTCCCTGGTCAAAGCTTGCTGGAGCAGGCCCCGTTCCCATTTTACTGATGTCTAGCAGTCGTGTT

CAGTAATACGTCATACCCAGGTCTCCACGCTAAACAGCCTAAACACTAAAAGTAAACATGCTGTGAAGTA

AAGGAAGCTAGATTCATGCTGTCCTTGCGGTTGGATGCCAAGATTCAG