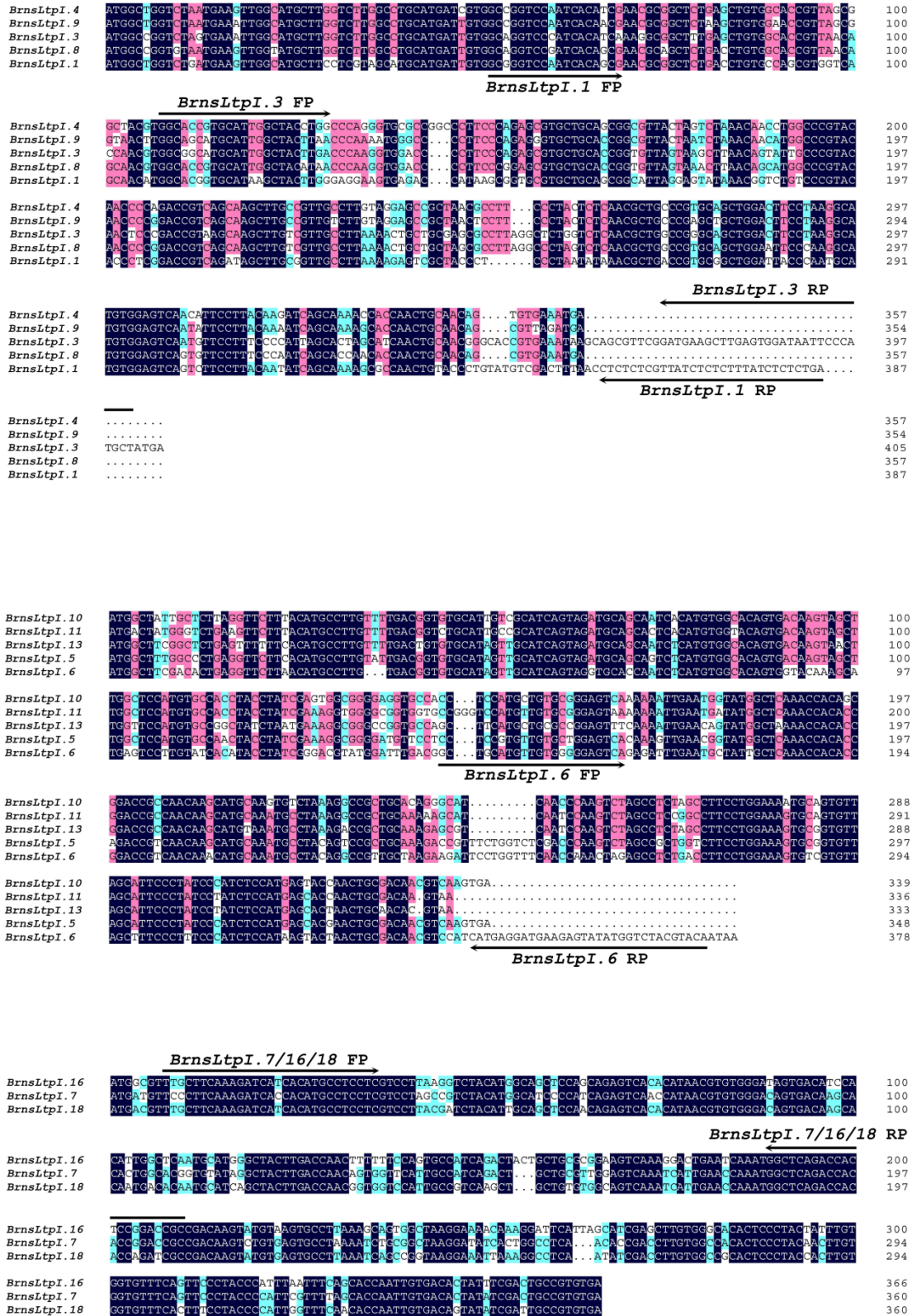


Figure S3. Schematic representation of primers used in quantitative RT-PCR analysis.



BrnsLtpXI.4/5/6 FP

BrnsLtpXI.4 ATGGCTTATTCTAAGATTGCTCTCTCCCTCATTGGAATGTATTTTCTTACCTTGGTCAGCTCGAATCCAGTCCCTACCAGCAAACCCACTTGFAAAA 100
 BrnsLtpXI.6 ATGGCTTATTCTAAGATTGCTCTCTCCCTCATTGGAATGTATTTTCTTACCTTGGTCAGCTCGAATCCAGTCCCTACCAGCAAACCCACTTGFAAAA 100
 BrnsLtpXI.5 ATGGCTTATTCTAAGATTGCTCTCTCCCTCATTGGAATGTATTTTCTTACCTTGGTCAGCTCGAATCCAGTCCCTACCAGCAAACCCACTTGFAAAA 100
 BrnsLtpI.12 ATGGCTTATTCTAAGATTGCTCTCTCCCTCATTGGAATGTATTTTCTTACCTTGGTCAGCTCGAATCCAGTCCCTACCAGCAAACCCACTTGFAAAA 100

BrnsLtpI.12 FP

BrnsLtpXI.4 ATGCTCTTAAATCAAGGTGTGCAATGTGTTGGATTGGTTAAGGTTCTCTACCAACAAGATCCAAATGTTGCGGACTTATCAAAGGTCTAGTTGA 200
 BrnsLtpXI.6 ATGCTCTTAAATCAAGGTGTGCAATGTGTTGGATTGGTTAAGGTTCTCTACCAACAAGATCCAAATGTTGCGGACTTATCAAAGGTCTAGTTGA 200
 BrnsLtpXI.5 ATGCTCTTAAATCAAGGTGTGCAATGTGTTGGATTGGTTAAGGTTCTCTACCAACAAGATCCAAATGTTGCGGACTTATCAAAGGTCTAGTTGA 200
 BrnsLtpI.12 ATGCTCTTAAATCAAGGTGTGCAATGTGTTGGATTGGTTAAGGTTCTCTACCAACAAGATCCAAATGTTGCGGACTTATCAAAGGTCTAGTTGA 200

BrnsLtpXI.4/5/6 RP

BrnsLtpXI.4 CTCTCGAAGC SCAGTTTGTCT CTGCAC SCCTTAAAAGCTGATCTCCTTGCCCTCAAACCTAAATGTTCCCATTTTCATTGAGT 282
 BrnsLtpXI.6 CTCTCGAAGC SCAGTTTGTCT CTGCAC SCCTTAAAAGCTGATCTCCTTGCCCTCAAACCTAAATGTTCCCATTTTCATTGAGT 282
 BrnsLtpXI.5 CTCTCGAAGC SCAGTTTGTCT CTGCAC SCCTTAAAAGCTGATCTCCTTGCCCTCAAACCTAAATGTTCCCATTTTCATTGAGT 282
 BrnsLtpI.12 CTCTCGAAGC SCAGTTTGTCT TGAAGCCGAGTTTGTCT CTGCAC SCCTTAAAAGCTGATCTCCTTGCCCTCAAACCTAAATGTTCCCATTTTCATTGAGT 300

BrnsLtpI.12 RP

BrnsLtpXI.4 GTTATCTTAAACCACTGGGTAAGAAGGTTCCATCTGGTTTCAAATGTGCCTAG 336
 BrnsLtpXI.6 GTTATCTTAAACCACTGGGTAAGAAGGTTCCATCTGGTTTCAAATGTGCCTAG 336
 BrnsLtpXI.5 GTTATCTTAAACCACTGGGTAAGAAGGTTCCATCTGGTTTCAAATGTGCCTAG 336
 BrnsLtpI.12 GTTATCTTAAACCACTGGGTAAGAAGGTTCCATCTGGTTTCAAATGTGCCTAG 354

BrnsLtpII.1/4 FP

BrnsLtpII.1 ATGAAGTTTCTTGTCTAAACACAGTCTTCTTCACTCTGCAATCCCTCTCTGCTCATTCTTCTCAAGAAA...CAGAGTTGTTCAGGACAGTCA 96
 BrnsLtpII.4 ATGAAGTTTCTTGTCTAAACACAGTCTTCTTCACTCTGCAATCCCTCTCTGCTCATTCTTCTCAAGAAA...CAGAGTTGTTCAGGACAGTCA 96
 BrnsLtpII.12 ATGAAGTTTCTTGTCTAAACACAGTCTTCTTCACTCTGCAATCCCTCTCTGCTCATTCTTCTCAAGAAA...CAGAGTTGTTCAGGACAGTCA 100

BrnsLtpII.14 FP

BrnsLtpII.1 ...TCTGACCCATGTCAGCTTATCCCATGGCAGGAGGCCATCTGAAAGGCTTAAGCCCTCGATACATGTTGCACCGGCTGAACCAAGCAACCAACAGTC 194
 BrnsLtpII.4 ...TCTGACCCATGTCAGCTTATCCCATGGCAGGAGGCCATCTGAAAGGCTTAAGCCCTCGATACATGTTGCACCGGCTGAACCAAGCAACCAACAGTC 194
 BrnsLtpII.12 CTTCGACCACTGATGCTA...CAGAGTTGTTCAGGACAGTCA...CAGAGTTGTTCAGGACAGTCA...CAGAGTTGTTCAGGACAGTCA...CAGAGTTGTTCAGGACAGTCA 200

BrnsLtpII.1/4 RP

BrnsLtpII.1 TGTCTCCGATCATSAAGAACCCCAATTTCAATTTTCTCCGAGCTCAGCAATGCTAATAAAAAATCGCCACTGATTTGATTGCTCTAATCCCTAGTCT 294
 BrnsLtpII.4 TGTCTCCGATCATSAAGAACCCCAATTTCAATTTTCTCCGAGCTCAGCAATGCTAATAAAAAATCGCCACTGATTTGATTGCTCTAATCCCTAGTCT 291
 BrnsLtpII.12 TGTCTCCGATCATSAAGAACCCCAATTTCAATTTTCTCCGAGCTCAGCAATGCTAATAAAAAATCGCCACTGATTTGATTGCTCTAATCCCTAGTCT 300

BrnsLtpII.14 RP

BrnsLtpII.1 TAG 297
 BrnsLtpII.4 TAG 294
 BrnsLtpII.12 TGA 303

BrnsLtpII.2/12 FP

BrnsLtpII.2 ATGAACTTCAAGAGTATGATCATCAGCTTTTGTGATATCTCTTGTATCCGCTTCAGCTCCGACCAAGAAATCTTGGAAAGG...AAGTGG 91
 BrnsLtpII.12 ATGAACTTCAAGAGTATGATCATCAGCTTTTGTGATATCTCTTGTATCCGCTTCAGCTCCGACCAAGAAATCTTGGAAAGG...AAGTGG 91
 BrnsLtpII.11 ATGAACTTCAAGAGTATGATCATCAGCTTTTGTGATATCTCTTGTATCCGCTTCAGCTCCGACCAAGAAATCTTGGAAAGG...AAGTGG 100

BrnsLtpII.11 FP

BrnsLtpII.2/12 RP

BrnsLtpII.2 CA.....TGCACCTGACAGAACATATAATCATGCATACCAGCAATACAATCCGGAATCAACCGTCCGCTGAATGCTGCGGAAACCTGAAAGAAAGAA 185
 BrnsLtpII.12 CA.....TGCACCTGACAGAACATATAATCATGCATACCAGCAATACAATCCGGAATCAACCGTCCGCTGAATGCTGCGGAAACCTGAAAGAAAGAA 185
 BrnsLtpII.11 CACAATCGTGTGTGACAGAACCTGCCCATGCTTACCAGCAATGACCAAGGCTGAGAGCCGACTACA...GAATGCTGCGGAAACCTGATAGAGGAGAA 200

BrnsLtpI.11 RP

BrnsLtpII.2 GTCTGTGTTGTTGGTTATATCAAAATCCATTTCTTCTCASTATGTTACTCTGAAAATGTTCCAAATGCTTTAGTAACCTTGTGCTTATCTCT 285
 BrnsLtpII.12 GTCTGTGTTGTTGGTTATATCAAAATCCATTTCTTCTCASTATGTTACTCTGAAAATGTTCCAAATGCTTTAGTAACCTTGTGCTTATCTCT 285
 BrnsLtpII.11 ACATGTTGTTGGTTATATCAAAATCCATTTCTTCTCASTATGTTACTCTGAAAATGTTCCAAATGCTTTAGTAACCTTGTGCTTATCTCT 300

BrnsLtpII.2 TCTTCTAG 294
 BrnsLtpII.12 ACTTGTAA 294
 BrnsLtpII.11 AGTTCTAA 309

BrnsLtpII.3/13 FP

BrnsLtpII.3 ATGGTAAAGTGATGTGGGTTCCAGTTTAGCTCTCCGCGAGCGCTTCTCTGTGTACGCGTGCAGAACATCCCGTGGCGGAGGAAATGACCT 94
 BrnsLtpII.13 ATGGTAAAGTGATGTGGGTTTTCCTTTTAGCTCTCTCCGCGAGCGCTTCTCTGTGTACGCGTGCAGAACATCCCGTGGCGGAGGAAATGACCT 94
 BrnsLtpII.5 ATGAACCTCACAGGACCAATATGCATCGGATTGGATAGTCTCTCTTTCTCTCTTTGGCTCTCACCAATCCAGCCGCGGAAATATGAGAAATGACTGGGAA 100

BrnsLtpII.5 FP

BrnsLtpII.3/13 RP

BrnsLtpII.3 SCTCGCCGACGGAACTGACTTCATGTTTCGTGGGTTTATGTTAGCTTTCCGCGCGCTCAGCAACGTGTGCGCCAGCTGAGAGAGCAGAGCCATGCT 194
 BrnsLtpII.13 SCTCGGTGACGGAAATGCTCTCATGTTTGGCGGTTTATGTTAGCTTTCCGCAACCGTCCGCTCTGTGTGTGCGCAGCTGAGAGAGCAGAGCCATGCT 194
 BrnsLtpII.5 SCAATCCGAAAGAACTTAACCCATGCAGCCAGCTCTTAAAAAACGGAAGTAGCCGCTCAAAGAGTGTGCGCATCTCTGAAABAGAGAGCCGTCTCT 200

BrnsLtpII.3 TTGTGGATATCTCAGGAACCCCTGCCCTCAGCCASTACCTTAACTCTCCAAAAGCCAAAGAAAGTTGCCAGCTTCAATGTGTAAACCCGAAATGTTAA 294
 BrnsLtpII.13 TTGTGGTACATCAGGAACCCCTGCCCTCAGCCAAATATCTTACCTCCAAAAGCCTAAGAAAGTCTCCAAAGCTTCAAGGTGTGTTCCGCAAACTGTTAA 294
 BrnsLtpII.5 ATGTGGTTACATTAATGATCCAGTTTATGCTCAGTATATTAATCCAAAATGCTCTTAAAGCCTTCTCGTCTTGTGGTAACTCTCTTTCTTCTTGG 300

BrnsLtpII.5 RP

BrnsLtpII.3/13 FP

BrnsLtpII.3 ATGGTAAAGTGATGTGGGTTCCAGTTTAGCTCTCCGCGAGCGCTTCTCTGTGTACGCGTGCAGAACATCCCGTGGCGGAGGAAATGACCT 94
 BrnsLtpII.13 ATGGTAAAGTGATGTGGGTTTTCCTTTTAGCTCTCTCCGCGAGCGCTTCTCTGTGTACGCGTGCAGAACATCCCGTGGCGGAGGAAATGACCT 94
 BrnsLtpII.5 ATGAACCTCACAGGACCAATATGCATCGGATTGGATAGTCTCTCTTTCTCTCTTTGGCTCTCACCAATCCAGCCGCGGAAATATGAGAAATGACTGGGAA 100

BrnsLtpII.5 FP

BrnsLtpII.3/13 RP

BrnsLtpII.3 SCTCGCCGACGGAACTGACTTCATGTTTCGTGGGTTTATGTTAGCTTTCCGCGCGCTCAGCAACGTGTGCGCCAGCTGAGAGAGCAGAGCCATGCT 194
 BrnsLtpII.13 SCTCGGTGACGGAAATGCTCTCATGTTTGGCGGTTTATGTTAGCTTTCCGCAACCGTCCGCTCTGTGTGTGCGCAGCTGAGAGAGCAGAGCCATGCT 194
 BrnsLtpII.5 SCAATCCGAAAGAACTTAACCCATGCAGCCAGCTCTTAAAAAACGGAAGTAGCCGCTCAAAGAGTGTGCGCATCTCTGAAABAGAGAGCCGTCTCT 200

BrnsLtpII.3 TTGTGGATATCTCAGGAACCCCTGCCCTCAGCCASTACCTTAACTCTCCAAAAGCCAAAGAAAGTTGCCAGCTTCAATGTGTAAACCCGAAATGTTAA 294
 BrnsLtpII.13 TTGTGGTACATCAGGAACCCCTGCCCTCAGCCAAATATCTTACCTCCAAAAGCCTAAGAAAGTCTCCAAAGCTTCAAGGTGTGTTCCGCAAACTGTTAA 294
 BrnsLtpII.5 ATGTGGTTACATTAATGATCCAGTTTATGCTCAGTATATTAATCCAAAATGCTCTTAAAGCCTTCTCGTCTTGTGGTAACTCTCTTTCTTCTTGG 300

BrnsLtpII.5 RP

BrnsLtpII.6/7/Bra001701 FP

BrnsLtpII.7 ATGCTCATGATPCRAAGSCAATCATGGGTTTCACTCTTCCGCAACCCGCGGTTTCTCCTAGT...GATTCTAGCCCGCGGAGAGCACTGACGTGTCCG 97
 Bra001701 ATGCTCATGATPCRAAGSCAATCATGGGTTTCACTCTTCCGCAACCCGCGGTTTCTCCTAGT...GTTCTAGTCCCGCGGAGAGCGGTGACGTGTCCG 97
 BrnsLtpII.6 ATGGAATGATPCRAAGSCAATCATGGGTTTCACTCTTCCGCAACCCGCGGTTTCTCCTAGTGTGATCTTAGTCCCGCGGAGAGCACTGACGTGTCCG 100
 BrnsLtpII.15 ATGGTCTTCACTCATGGTCTTCCGCACTTCTCCGCTCCAAAGCAAGAGCGGACAGCAAAATGTGAAACAGCAGCAGGTGACC 94

BrnsLtpII.7 CAATGCAGCTAAGCCCATGTGGCGCAAGCATAAAGCTCTCTTCTCAGCTCAGCGTTGTGTGCGCBAAGCTGAAGGACAAACCCATGCAATGTTGG 197
 Bra001701 CAATGCAGCTAAGCCCATGTGGCGCGGCGCAATAGCTCTCTTCTCAGCTCAGCGTTGTGTGCGCBAAGCTGAAGGACAAACCCATGCAATGTTGG 197
 BrnsLtpII.6 CAATGCAGCTAAGCCCATGTGGCATCGCBAATAGCTCTCTTCTCAGCTCAGCGTTGTGTGCGCBAAGCTGAAGGACAAACCCATGCAATGTTGG 200
 BrnsLtpII.15 CAATGCAGCTCAGCCCTTCCCTGGCCGCAATAGTGGAGGAGGAGAGCGCTGCGTGTGCTGTGCTCBAAGCTGAAGGACAAACCCATGCAATGTTGG 194

BrnsLtpII.15 FP

BrnsLtpII.6/7/Bra001701 RP

BrnsLtpII.7 GTACATGAAACCCTAGCCCTCCGCTCTGTTAGCTCTCCCAACCGCTCGAAAGTCTTAAAGCTGCAAGCTCCCATCCCAAGCTGTGTA 291
 Bra001701 GTACATGAAACCCTAGCCCTCCGCTCTGTTAGCTCTCCCAACCGCTCGAAAGTCTTAAAGCTGCAAGCTCCCATCCCAAGCTGTGTA 291
 BrnsLtpII.6 GTACATGAAACCCTAGCCCTCCGCTCTGTTAGCTCTCCCAACCGCTCGAAAGTCTTAAAGCTGCAAGCTCCCATCCCAAGCTGTGTA 294
 BrnsLtpII.15 GTTTCTTAGAACCCTGCTTTGCTCAGCAATAGCTCTCCCAACTCTCGAAAGTCTTAAAGCTGCAAGCTCCCATCCCAAGCTGTGTA 288

BrnsLtpII.15 RP

BrnsLtpII.9/10 FP

BrnsLtpII.9 ATGAAGTTCACAGGACCAATATGCATCGCACTTGTGATAGTCTGATTTCTCTTTGGATCTGACCAGTGCAGCCGCTGGAAGAAGAGATAAAGTGGCAT 100
 BrnsLtpII.10 ATGAAGTTCACAGGACCAATATGCATCGCACTTGTGATAGTCTGATTTCTCTTTGGATCTGACCAGTGCAGCCGCTGGAAGAAGAGATAAAGTGGCAT 100

BrnsLtpII.9 GTGTCGTAACAGAACTTATCCCATGTTCCGTAATCAATATCGGAAGTCAACCTATCCAGAAATGTTGTAACACTGAAAGCAACACAGTGGTGT 200
 BrnsLtpII.10 GTGTCGTAACAGAACTTATCCCATGTTCCGTAATCAATATCGGAAGTCAACCTATCCAGAAATGTTGTAACACTGAAAGCAACACAGTGGTGT 200

BrnsLtpII.9 ATGTGGTTACATCAAAAATCCAGTATGTTGGTGGTTTTTAAAGAAATGCTCAGAGTCTTCAACGGCTTGTGGTGTACCTTACCCTACTTGTGTA 294
 BrnsLtpII.10 ATGTGGTTACATCTCAAAATCCAGTATGTTGGTCAATTTATAAAGAAATGCTCAGAGTCTTCAACGGCTTGTGGTGTACCTTACCCTACTTGTGTA 294

BrnsLtpII.9/10 RP

BrnsLtpIII.1 FP

BrnsLtpIII.1 ... ATGGAATTTCTCAAATCCTTTCAACTATTTCTCTTTGAAATTTCTCTGCCATGAGCCTCTGGAGACCTACTATGCTTCGASCTCAACAATGCC 97
 BrnsLtpIII.2 ATGGTATCAATTTCCAGCTCTTCCAATCTTCTACAAATCATGAGAGTGGTGTGATGCTGTGGCTTCTGGGAGAGTGGTGCATGGACAAGCT 100
 BrnsLtpIII.3 ATGATCATGAGAGTGGCTGGCTGTGGCTGGTGTGTTGGGAGATGAGGTGCACGGACAAGCT 67

BrnsLtpIII.2/3 FP

BrnsLtpIII.1 TAGTCA... AATTGAGCAATAAGCAGTGTGTGCGCCCTGCTTCTGCTGCTGCTGCTGCTAATTCAGCCTCCGAATTAATTCCTGCAATTCCTCTCCAGGC 194
 BrnsLtpIII.2 GCAATACGCACTTGAGTGGACTCAACCTGTGTGCTGAGCTTTAGTTCACAGACCAACAGAGCAACCCGACTCCGAGCTCTTCCATTCCTCTTCAAGGC 200
 BrnsLtpIII.3 GCATATCGCACTTGAGTGGACTCAACCTGTGTGCTGAGCTTTAGTTCACAGACCAACAGAGCAACCCGACTCCGAGCTCTTCCATTCCTCTTCAAGGC 167

BrnsLtpIII.1 RP

BrnsLtpIII.1 AACAAACAAATTTCTATAAGTAAAGCCCTTCGAGCAAGCAGCACATTAACAATACTGCAAGCCTCCCTCTTTAGATGTTGGTATACCATATGA 291
 BrnsLtpIII.2 AGTCCCGAGCAGCTCATTTGCAACAGATTTGCGATTTCCTCCAGGCTTCCACTCGCTGCAACATCCCTTACCTTTCAGCAACTGA..... 288
 BrnsLtpIII.3 AGTCCCGAGCAGCTCATTTGCAACAGATTTGCGATTTCCTCCAGGCTTCCACTCGCTGCAACATCCCTTACCTTTCAGCAACTGA..... 255

BrnsLtpIII.2/3 RP

BrnsLtpIV.1 FP

BrnsLtpIV.1 ATGGATTGAGAACAAACACCAACCAATCTGAGCAGCTCTGTTGATGTTTTCCTGCTTCTGTTAAATGGAAGAACCAAGAGCATTCCATATGTTAAC 100
 BrnsLtpIV.2 ATGGATTGAGAACAAACACCAACCAATCTGAGCAGCTCTGTTGATGTTTTCCTGCTTCTGTTAAATGGAAGAACCAAGAGCATTCCATATGTTAAC 100
 BrnsLtpIV.3 ATGGATTGAGAACAAACACCAACCAATCTGAGCAGCTCTGTTGATGTTTTCCTGCTTCTGTTAAATGGAAGAACCAAGAGCATTCCATATGTTAAC 100

BrnsLtpIV.2/3 FP **BrnsLtpIV.1 RP**

BrnsLtpIV.1 TCAGAGCAAACACTTGGAGAAGTCCCTCCAGCAGTACAGAGAAACAACCCGCTCCAGGTTAGTGGATGCTGCATAGTCCCTCAAGCTGCTGATCT 200
 BrnsLtpIV.2 TCAGAGCAAAGACTTGGAGAAGTCCCTCCAGCAGTACAGAGAAACAACCCGCTCCAGGTTAGTGGATGCTGCATAGTCCCTCAAGCTGCTGATCT 200
 BrnsLtpIV.3 TCAGAGCAAACGACTTGGAGAAGTGAATCCAGCAGTACAGAGAAACAACCCGCTCCAGGTTAGTGGATGCTGCATAGTCCCTCAAGCTGCTGATCT 200

BrnsLtpIV.2/3 RP

BrnsLtpIV.1 CGAATGCTGTCTGAAATTTAAATCTCATTTCCAAATTTTAAAGCAACATTCATTAAGTCTGCTTCTCTGAGAAATGTTGGCATTAAAGCAATCCC 299
 BrnsLtpIV.2 TGAATGCTGTCTGAAATTTAAATCTCATTTCCAAATTTTAAAGCAACATTCATTAAGTCTGCTTCTCTGAGAAATGTTGGCATTAAAGCAATCCC 291
 BrnsLtpIV.3 TGAATGCTGTCTGAAATTTAAATCTCATTTCCAAATTTTAAAGCAACATTCATTAAGTCTGCTTCTCTGAGAAATGTTGGCATTAAAGCAATCCC 291

BrnsLtpIV.1 TCCTGCATGCCAGATTAACCAACCAAGTATCATAG 333
 BrnsLtpIV.2 TCCTGTTTGCCATGTA..... 309
 BrnsLtpIV.3 TCCTGTTTGCCATGTA..... 309

BrnsLtpIV.4 FP

BrnsLtpIV.4 ATGGCCAGTAAGAAGTGGGTGTATGTTGATGATGATGATGATGATGATGGTGGTGGATGGTATTATTCGCGAAGGGTCACTGGCAGTTATGTGGCA 100
 BrnsLtpIV.6 ATGGCCCAAAACCTATGCTGCTGATTTACCTTGGTCTTCCCTTGCATCTCCGCAACCGGAGATTTGTGGTA 82

BrnsLtpIV.6 FP

BrnsLtpIV.4 TGACCCAGTCAAGTTGATGAGTGCAGAACAGCCGGTGGAGGAGAAATCCACAGAACCTGACG..... CTTGCTGGACTATCTGAA 188
 BrnsLtpIV.6 TGACCCAGTCAAGTTGATGAGTGCAGAACAGCCGGTGGAGGAGAAATCCACAGAACCTGACG..... CTTGCTGGACTATCTGAA 182

BrnsLtpIV.6 RP

BrnsLtpIV.4 RP

BrnsLtpIV.4 ACACCTGACATCAGCTGCTTTGCGCTACAGAAACCTCTCTTTTTCGCTTCTTTCGGTATTGATCCGCGCTGCTGCTGGACTCCCACCAGATGT 288
 BrnsLtpIV.6 TAAAGCTGACATCAGCTGCTTTGCGCTACAGAAACCTCTCTTTTTCGCTTCTTTCGGTATTGATCCGCGCTGCTGCTGGACTCCCACCAGATGT 282

BrnsLtpIV.4 CACAAGCCCAACCTCCAACTTCTATA 315
 BrnsLtpIV.6 CGATATCTGGTGC... AACTTGTATA 306

BrnsLtpV.1 FP

BrnsLtpV.1 ATGAACTGCTTAAAGTTATTCCTGCTCTTCTATGAGTCTTCTCAACACTTGGCTTCCTGTTAGCGCCTGAGTGTGCTGCTCATGCTCATGCTC 100
 BrnsLtpV.2 ATGAACTGCTTAAAGTTATTCCTGCTCTTCTATGAGTCTTCTCAACACTTGGCTTCCTGTTAGCGCCTGAGTGTGCTGCTCATGCTCATGCTC 100

BrnsLtpV.2 FP

BrnsLtpV.1 AAGCTGCGCTAGCTTGAATCCCTGTTTCTGCTCAAGAGACCCAGGGTAAAGGTTCCACCCGGTTGTTGTGCCAAGTGGGTGCTCTCATTAAGAC 200
 BrnsLtpV.2 AAGCTGCGCTAGCTTGAATCCCTGTTTCTGCTCAAGAGACCCAGGGTAAAGGTTCCACCCGGTTGTTGTGCCAAGTGGGTGCTCTCATTAAGAC 198

BrnsLtpV.1 RP

BrnsLtpV.1 CAACCTCTGTCTTGTCTGTCTGTCTGCTCTTCTCTTTCGCAAGAAAGCTGGAATCAATCCTGAGTTCGCAATTCCTATTCTTAAACGCTCTAACATC 300
 BrnsLtpV.2 CAACCTCTGTCTTGTCTGTCTGTCTGCTCTTCTCTTTCGCAAGAAAGCTGGAATCAATCCTGAGTTCGCAATTCCTATTCTTAAACGCTCTAACATC 297

BrnsLtpV.1 CGCAACCCGCTGCTTGGCAAGAGTGGAAAGTTA... CATTGTTTCCATGA..... 348
 BrnsLtpV.2 GCTAACCCGCTGCTTGGCAAGAGTGGAAAGTTA... CATTGTTTCCATGA..... 340

BrnsLtpV.2 RP

BrnsLtpVI.2/3/4 FP

```

BrnsLtpVI.3 ATGGCAAGTGGAAAGATAATATCAGCGTTCTAGCAATAGCATTCTCATCATCGGTTCCGACAAATGTCAACGTGGCCACAGCTCAGTTCTGTGGAGCTA 100
BrnsLtpVI.4 ATGGCAAGTGGAAAGATAATATCAGCGTTCTAGCAATAGCATTCTCATCATCGGTTCCGACAAATGTCAACGTGGCCACAGCTCAGTTCTGTGGAGCTA 100
BrnsLtpVI.2 ATGGCAAGTGGAAAGATAAASHTAATGSHHTCTAGCAATAGCTTCTCATCATCGGTTCCGACAAATGTCAACCATGGGACAGCTCAGCTCTGTGGAGCTA 100
BrnsLtpVI.1 ATGGCGACAGGTTCTCGTCTCTCAGTCSSTCTAGCAATAGA...TCCRCATCATTCAGGAAACCTGCTATTTCCAGGGAGAGAA...CGTGCCAGAGAG 94

```

BrnsLtpVI.1 RP **BrnsLtpVI.2/3/4 RP**

```

BrnsLtpVI.3 ACGTGTGGGACTGATGARTGAGTGCAACGCTACGTACAGCAACGCGGACCAAAATTCCTCCGCCCATCTCGGTCTGTGCTATAACCGTCCCTAT 200
BrnsLtpVI.4 ACGTGTGGGACTGATGARTGAGTGCAACGCTACGTACAGCAACGCGGACCAAAATTCCTCCGCCCATCTCGGTCTGTGCTATAACCGTCCCTAT 200
BrnsLtpVI.2 ACGTGTGGGACTGATGARTGAGTGCAACGCTACGTACAGCAACGCGGACCAAAATTCCTCCGCCCATCTCGGTCTGTGCTATAACCGTCCCTAT 200
BrnsLtpVI.1 AATCGAGGTTCTATGAGAGATGCTGTCTACGTTACAGCGTCTCGGCGCAAAAGGT...AAACCCATCTCGCACCGGTCTCAAAGTCGTATAGAGATC 191

```

BrnsLtpVI.1 RP

```

BrnsLtpVI.3 CGACGTACCTTGTGCATGCCGCTACCTTCAAGGGATTTACCAACTATATGATGATGACAAAGTTCTTTATGTTCTCGTTCTCCGGCAACAGAGATT 300
BrnsLtpVI.4 CGACGTACCTTGTGCATGCCGCTACCTTCAAGGGATTTACCAACTATATGATGATGACAAAGTTCTTTATGTTCTCGTTCTCCGGCAACAGAGATT 300
BrnsLtpVI.2 AGATATACCTGTGTTGTGCTACCTTACCTAGGGATTTATSAACACTTTTGATGATGACAAAGTTCTTTATGTTCTCGTTCTCCGGCAACAGAGATT 300
BrnsLtpVI.1 AGACATCCCTTCCCATGTGCGCTATCAACCCCTCGGTTCAAAAGATGATASACATGAAATAGGTTCTTTGTTCACCTCCCTTTGTGGAGCCCTCTCC 291

BrnsLtpVI.3 CCATCTGGTATAAATGTGGAAGTTACACANTCCGGCGGCTTAG 345
BrnsLtpVI.4 CCATCTGGTATAAATGTGGAAGTTACACANTCCGGCGGCTTAG 345
BrnsLtpVI.2 CCATCTGGTATAAATGTGGAAGTTACACANTCCGGCGGCTTAG 345
BrnsLtpVI.1 GTCATGGTACCBAAGTGTGGAAGTAACTCTGTAT...CAATTA 333

```

```

BrnsLtpXI.5 .....ATGGCTATTCTAAGATTGCTCTCGTCCCTATTGTGAATSTATTATTTCTCAACCTTGTAGTCTCGAATCCAGTCCCT 78
BrnsLtpXI.6 .....ATGGCTATTCTAAGATTGCTCTCGTCCCTATTGTGAATSTATTATTTCTCAACCTTGTAGTCTCGAATCCAGTCCCT 78
BrnsLtpXI.4 .....ATGGCTATTCTAAGATTGCTCTCGTCCCTATTGTGAATSTATTATTTCTCAACCTTGTAGTCTCGAATCCAGTCCCT 78
BrnsLtpXI.3 ATGGCTATTCTCAAAAGCTTTCCATGCTTCCTGGCTCTGCTAGTCCTCAAGTCAACATTCCTCTTTGTCAATGCCATTAAGCAATGCCCTCCCTCCA 100

```

BrnsLtpXI.3 FP

```

BrnsLtpXI.5 TACCCCAAAACCACTGTGTA.....AATGCTCTTAATTCAAGCTGTGCTCCCAATGTTTSSATTTGTTTAAAG.....TTTCTCCTACCAACAG 164
BrnsLtpXI.6 TACCCCAAAACCACTGTGTA.....AATGCTCTTAATTCAAGCTGTGCTCCCAATGTTTSSATTTGTTTAAAG.....TTTCTCCTACCAACAG 164
BrnsLtpXI.4 TACCCCAAAACCACTGTGTA.....AATGCTCTTAATTCAAGCTGTGCTCCCAATGTTTSSATTTGTTTAAAG.....TTTCTCCTACCAACAG 164
BrnsLtpXI.3 GAAACAATCATCATGAAATGTCCAAAGCACAAGGTAAAGTTGGAATCTGTGGGAGCTGTTASCTAGATTCTTGGTTCATCCGACACCAACAG 200

BrnsLtpXI.5 ATCCAAATGTTTCCGACTTTCAAAAGTCTAAGTATCTGAAGCTCAAGGCTAGTTGCTCTCGCACCCGCTTAAAGTGATCTCTTGGCTCAAACATAAT 264
BrnsLtpXI.6 ATCCAAATGTTTCCGACTTTCAAAAGTCTAAGTATCTGAAGCTCAAGGCTAGTTGCTCTCGCACCCGCTTAAAGTGATCTCTTGGCTCAAACATAAT 264
BrnsLtpXI.4 ATCCAAATGTTTCCGACTTTCAAAAGTCTAAGTATCTGAAGCTCAAGGCTAGTTGCTCTCGCACCCGCTTAAAGTGATCTCTTGGCTCAAACATAAT 264
BrnsLtpXI.3 CCAGGATGTTTGTCTACTTTCAAAAGTCTAAGTATCTGAAGCTCAAGGCTAGTTGCTCTCGCACCCGCTTAAAGTGATCTCTTGGCTCAAACATAAT 300

BrnsLtpXI.5 G...TTCCCATTCATGAGTCTTAACTTAAACACTGTGGTAAGAGGTTCCATCTGTTCAAATGTCCTAG 336
BrnsLtpXI.6 G...TTCCCATTCATGAGTCTTAACTTAAACACTGTGGTAAGAGGTTCCATCTGTTCAAATGTCCTAG 336
BrnsLtpXI.4 G...TTCCCATTCATGAGTCTTAACTTAAACACTGTGGTAAGAGGTTCCATCTGTTCAAATGTCCTAG 336
BrnsLtpXI.3 AAACTTCCCTGTTCTCAGCTTTCAGTCTTGTGGCAAGACTCTTCACAGGAATGTCTGTGTGA... 372

```

BrnsLtpXI.3 RP

BrnsLtpY.1 FP

```

BrnsLtpY.1 ATGAAGATACATCGTCCCAATCTCGCTGCACCTTSCCTTTCATCAGACCSCCTTTCCCAATTTCAATGCAT...TGACAGTGCASAGAGCTCT 97
BrnsLtpY.2 .....ATGAAGATACATCGTCCCAATCTCGCTGCACCTTSCCTTTCATCAGACCSCCTTTCCCAATTTCAATGCAT...TGACAGTGCASAGAGCTCT 82

```

BrnsLtpY.2 FP

```

BrnsLtpY.1 TCACAGATTCATGCCCAGCATGSCCTTCGTTCGACGACATCTTCAGCACCCTTCCTCAACAATGCTTASAGCGTTAGGCACCTTCAACAACTGCTTAA 197
BrnsLtpY.2 CCCTGAGTSCCTAGAGSSTGGCAACCTATGCTTATGCTGAAAGSAGG...TGTTCTTSTCGAASAGSACTSCCTCCCAACCGCCGAGTGCTCCGCTG 179

BrnsLtpY.1 GTTCAAGACTCCAGGATCGAAGAAGTACAGCAGGGSACTTGACACTTAAGAGAGTTTCGAAATGCATASAGATGATCGAAATACAGATCATCTTCTCC 297
BrnsLtpY.2 GTTCAAGTACCGCCGTGAAAGGCTTASAGCAGGAGSACTTCCGGTCTATSSA...GTTTTCACCAACAGCCTTTCAAGCAATCAAGCAAGCGTTT 277

```

BrnsLtpY.2 RP

BrnsLtpY.1 RP

```

BrnsLtpY.1 TTTTGGATCCCCGANTCAAAGTCTTCCCTCCCTTTGTTCTGCTCCGCTCCCTTTCTCATCTCTGTGAATGGAGTGTCTCACTTTASAAAGTGA 397
BrnsLtpY.2 TGGTCTCTCTGACCACTGCTCATTTCGGCGGTGGCTTCCCATTTCAAAAGAACAAAGSAGCGCTTGT...AAGCTCATTCCTTTCACCAACTCTTT 374

BrnsLtpY.1 AGGAACCTCGACGCTGAAAAAGTAAACTAG 426
BrnsLtpY.2 ..... 375

```