

Figure 1A

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NCBI gi 22123 230      ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 230 p1-62.1%    ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 229 p2-7.43%    ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 228 p3-3.91%    ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 229 p4-3.9%     ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 227 p5-3.63%    ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 226 p6-3.32%    ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 225 p7-2.93%    ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 224 p8-2.68%    ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 231 p9-2.57%    ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 231 p10-1.01%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 224 p11-0.87%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 227 p12-0.65%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 222 p13-0.55%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 226 p14-0.51%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 223 p15-0.5%     ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 220 p16-0.36%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 229 p17-0.33%   -ATATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 228 p18-0.32%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 231 p19-0.31%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 221 p20-0.28%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 229 p21-0.27%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 221 p22-0.22%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 227 p23-0.22%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 228 p24-0.21%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 225 p25-0.21%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 237 p26-0.2%    ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 263 p27-0.19%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
CONTIG 221 p28-0.18%   ACTATGCGATTGCTTTCTGGACCCGTGCAGCTGCGGTGGCATGGGAGGC
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NCBI gi 22123 230      CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 230 p1-62.1%    CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 229 p2-7.43%    CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 228 p3-3.91%    CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 229 p4-3.9%     CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 227 p5-3.63%    CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 226 p6-3.32%    CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 225 p7-2.93%    CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 224 p8-2.68%    CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 231 p9-2.57%    CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 231 p10-1.01%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 224 p11-0.87%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 227 p12-0.65%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 222 p13-0.55%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 226 p14-0.51%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 223 p15-0.5%     CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 220 p16-0.36%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 229 p17-0.33%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 228 p18-0.32%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 231 p19-0.31%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 221 p20-0.28%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 229 p21-0.27%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 221 p22-0.22%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 227 p23-0.22%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 228 p24-0.21%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 225 p25-0.21%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 237 p26-0.2%    CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 263 p27-0.19%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
CONTIG 221 p28-0.18%   CGGCAAGCCACTGTCGATCGAGGAGGTGGAGGTAGCGCCTCCGCAGGCCA
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Figure 1B

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NCBI gi 22123 230      TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACGT-
CONTIG 230 p1-62.1%    TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACGT-
CONTIG 229 p2-7.43%    TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACG--
CONTIG 228 p3-3.91%    TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACG--
CONTIG 229 p4-3.9%     TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACT--
CONTIG 227 p5-3.63%    TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACG--
CONTIG 226 p6-3.32%    TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACG--
CONTIG 225 p7-2.93%    TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACG--
CONTIG 224 p8-2.68%    TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACG--
CONTIG 231 p9-2.57%    TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACGTT
CONTIG 231 p10-1.01%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACGCT
CONTIG 224 p11-0.87%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGAC---
CONTIG 227 p12-0.65%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGAC---
CONTIG 222 p13-0.55%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACG--
CONTIG 226 p14-0.51%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGAC---
CONTIG 223 p15-0.5%     TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACG--
CONTIG 220 p16-0.36%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGAC---
CONTIG 229 p17-0.33%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACGT-
CONTIG 228 p18-0.32%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGAC--
CONTIG 231 p19-0.31%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACGAT
CONTIG 221 p20-0.28%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGAC---
CONTIG 229 p21-0.27%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACGT-
CONTIG 221 p22-0.22%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACG--
CONTIG 227 p23-0.22%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACGT-
CONTIG 228 p24-0.21%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGAT---
CONTIG 225 p25-0.21%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGAC---
CONTIG 237 p26-0.2%    TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACGTT
CONTIG 263 p27-0.19%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCGACGGA
CONTIG 221 p28-0.18%   TGGAGGTGCGCGTCAAGATCCTCTTTCACCTCGCTCTGCCACACCG---
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NCBI gi 22123 230      -----CT-----ACT----TCTG---GGAGGCCAA
CONTIG 230 p1-62.1%    -----CT-----ACT----TCTG---GGAGGCCAA
CONTIG 229 p2-7.43%    -----CT-----ACT----TCTG---GGAGGCCAA
CONTIG 228 p3-3.91%    -----T-----ACT----TCTG---GGAGGCCAA
CONTIG 229 p4-3.9%     -----CT-----ACT----TCTG---GGAGGCCAA
CONTIG 227 p5-3.63%    -----CT-----ACT----TCTG---GGAGGCCAA
CONTIG 226 p6-3.32%    -----CT-----TCTG---GGAGGCCAA
CONTIG 225 p7-2.93%    -----T-----TCTG---GGAGGCCAA
CONTIG 224 p8-2.68%    -----TCTG---GGAGGCCAA
CONTIG 231 p9-2.57%    -----CT-----ACT----TCTG---GGAGGCCAA
CONTIG 231 p10-1.01%   -----CT-----ACT----TCTG---GGAGGCCAA
CONTIG 224 p11-0.87%   -----T-----TCTG---GGAGGCCAA
CONTIG 227 p12-0.65%   -----T-----ACT----TCTG---GGAGGCCAA
CONTIG 222 p13-0.55%   -----TG---GGAGGCCAA
CONTIG 226 p14-0.51%   -----ACT----TCTG---GGAGGCCAA
CONTIG 223 p15-0.5%     -----CTG---GGAGGCCAA
CONTIG 220 p16-0.36%   -----G---GGAGGCCAA
CONTIG 229 p17-0.33%   -----CT-----ACT----TCTG---GGAGGCCAA
CONTIG 228 p18-0.32%   -----T-----ACT----TCTG---GGAGGCCAA
CONTIG 231 p19-0.31%   -----CT-----ACT----TCTG---GGAGGCCAA
CONTIG 221 p20-0.28%   -----TG---GGAGGCCAA
CONTIG 229 p21-0.27%   -----T-----ACT----TCTG---GGAGGCCAA
CONTIG 221 p22-0.22%   -----G---GGAGGCCAA
CONTIG 227 p23-0.22%   -----CT-----TCTG---GGAGGCCAA
CONTIG 228 p24-0.21%   -----CT-----TCTG---GGAGGCCAA
CONTIG 225 p25-0.21%   -----CT-----TCTG---GGAGGCCAA
CONTIG 237 p26-0.2%    TTTTTT-----CT-----ACT----TCTG---GGAGGCCAA
CONTIG 263 p27-0.19%   AGAAAACCTGATGGAGTCTGCAAAAGACCTGAGACTGGGAGGGAGGCCAA
CONTIG 221 p28-0.18%   -----TCTG---GGAGGCCAA
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Figure 1C

```
NCBI gi 22123 230      GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 230 p1-62.1%    GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 229 p2-7.43%    GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 228 p3-3.91%    GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 229 p4-3.9%     GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 227 p5-3.63%    GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 226 p6-3.32%    GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 225 p7-2.93%    GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 224 p8-2.68%    GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 231 p9-2.57%    GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 231 p10-1.01%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 224 p11-0.87%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 227 p12-0.65%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 222 p13-0.55%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 226 p14-0.51%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 223 p15-0.5%     GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 220 p16-0.36%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 229 p17-0.33%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 228 p18-0.32%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 231 p19-0.31%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 221 p20-0.28%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 229 p21-0.27%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 221 p22-0.22%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 227 p23-0.22%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 228 p24-0.21%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 225 p25-0.21%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 237 p26-0.2%     GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 263 p27-0.19%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
CONTIG 221 p28-0.18%   GGTATCTAATCAGCCATCCCATTGTGATCTTTGTCAGTAGATATGATAC
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NCBI gi 22123 230      AACAACTCGCGGT      (SEQ ID NO:47)
CONTIG 230 p1-62.1%    AACAACTCGCGGT      (SEQ ID NO:48)
CONTIG 229 p2-7.43%    AACAACTCGCGGT      (SEQ ID NO:49)
CONTIG 228 p3-3.91%    AACAACTCGCGGT      (SEQ ID NO:50)
CONTIG 229 p4-3.9%     AACAACTCGCGGT      (SEQ ID NO:51)
CONTIG 227 p5-3.63%    AACAACTCGCGGT      (SEQ ID NO:52)
CONTIG 226 p6-3.32%    AACAACTCGCGGT      (SEQ ID NO:53)
CONTIG 225 p7-2.93%    AACAACTCGCGGT      (SEQ ID NO:54)
CONTIG 224 p8-2.68%    AACAACTCGCGGT      (SEQ ID NO:55)
CONTIG 231 p9-2.57%    AACAACTCGCGGT      (SEQ ID NO:56)
CONTIG 231 p10-1.01%   AACAACTCGCGGT      (SEQ ID NO:57)
CONTIG 224 p11-0.87%   AACAACTCGCGGT      (SEQ ID NO:58)
CONTIG 227 p12-0.65%   AACAACTCGCGGT      (SEQ ID NO:59)
CONTIG 222 p13-0.55%   AACAACTCGCGGT      (SEQ ID NO:60)
CONTIG 226 p14-0.51%   AACAACTCGCGGT      (SEQ ID NO:61)
CONTIG 223 p15-0.5%     AACAACTCGCGGT      (SEQ ID NO:62)
CONTIG 220 p16-0.36%   AACAACTCGCGGT      (SEQ ID NO:63)
CONTIG 229 p17-0.33%   AACAACTCGCGGT      (SEQ ID NO:64)
CONTIG 228 p18-0.32%   AACAACTCGCGGT      (SEQ ID NO:65)
CONTIG 231 p19-0.31%   AACAACTCGCGGT      (SEQ ID NO:66)
CONTIG 221 p20-0.28%   AACAACTCGCGGT      (SEQ ID NO:67)
CONTIG 229 p21-0.27%   AACAACTCGCGGT      (SEQ ID NO:68)
CONTIG 221 p22-0.22%   AACAACTCGCGGT      (SEQ ID NO:69)
CONTIG 227 p23-0.22%   AACAACTCGCGGT      (SEQ ID NO:70)
CONTIG 228 p24-0.21%   AACAACTCGCGGT      (SEQ ID NO:71)
CONTIG 225 p25-0.21%   AACAACTCGCGGT      (SEQ ID NO:72)
CONTIG 237 p26-0.2%     AACAACTCGCGGT      (SEQ ID NO:73)
CONTIG 263 p27-0.19%   AACAACTCGCGGT      (SEQ ID NO:74)
CONTIG 221 p28-0.18%   AACAACTCGCGGT      (SEQ ID NO:75)
*****
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Figure 2A

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NCBI_gi_392931134_255 GAAACCTACCA GTCTCTCCTTTGAAGAAACATGAACAAAATTAGCCACG
CONTIG_256_p1_55.02% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_256_p2_23.68% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_255_p3_5.63% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_257_p4_4.3% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_250_p5_2.36% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_257_p6_1.43% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_257_p7_1.03% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_254_p8_0.73% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_255_p9_0.64% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_255_p10_0.61% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_253_p11_0.52% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_252_p12_0.45% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_257_p13_0.39% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_249_p14_0.33% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_249_p15_0.31% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_257_p16_0.29% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_252_p17_0.25% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_251_p18_0.2% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_253_p19_0.17% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_255_p20_0.16% G-AACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_247_p21_0.15% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_248_p22_0.15% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_251_p23_0.15% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_245_p24_0.14% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_257_p25_0.14% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_257_p26_0.13% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_253_p27_0.11% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_254_p28_0.1% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_251_p29_0.1% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_254_p30_0.09% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
CONTIG_249_p31_0.09% GAAACCTACCA GTCTCTCCTTTGAAGAAAACATGAACAAAATTAGCCACG
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Figure 2B

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NCBI_gi_392931134_255 GCGCTCTA-TCTCGGCCTTCCG-GTAACGTTTCTTGTTCAATAT-TGTTG
CONTIG_256_p1_55.02% GCGCTCTC-TCTCGGCCTTCCG-GTAACGTTTCTTGTTTCAGTATTGTTG
CONTIG_256_p2_23.68% GCGCTCTC-TCTCGGCCTTCCG-GTAATGTTTCTTGTTTCAGTATTGTTG
CONTIG_255_p3_5.63% GCGCTCTC-TCTCGGCCTTCCG--TAACGTTTCTTGTTTCAGTATTGTTG
CONTIG_257_p4_4.3% GCGCTCTC-TCTCGGCCTTCCGGTAACGTTTCTTGTTTCAGTATTGTTG
CONTIG_250_p5_2.36% GCGCTCTC-TCTCGGCCTTCC-----GTTTCTTGTTTCAGTATTGTTG
CONTIG_257_p6_1.43% GCGCTCTC-TCTCGGCCTTCCAGGTAACGTTTCTTGTTTCAGTATTGTTG
CONTIG_257_p7_1.03% GCGCTCTC-TCTCGGCCTTCCGGTAATGTTTCTTGTTTCAGTATTGTTG
CONTIG_254_p8_0.73% GCGCTCTC-TCTCGGCCTTCC---TAACGTTTCTTGTTTCAGTATTGTTG
CONTIG_255_p9_0.64% GCGCTCTC-TCTCGGCCTTCCG--TAATGTTTCTTGTTTCAGTATTGTTG
CONTIG_255_p10_0.61% GCGCTCTC-TCTCGGCCTTCCG--GTAACGTTTCTTGTTTCAGTATTGTTG
CONTIG_253_p11_0.52% GCGCTCTC-TCTCGGCCTTCCG----ACGTTTCTTGTTTCAGTATTGTTG
CONTIG_252_p12_0.45% GCGCTCTC-TCTCGGCCTTCCG-----CGTTTCTTGTTTCAGTATTGTTG
CONTIG_257_p13_0.39% GCGCTCTC-TCTCGGCCTTCCGTGTAACGTTTCTTGTTTCAGTATTGTTG
CONTIG_249_p14_0.33% GCGCTCTC-TCTCGGCCTTCCG-----TTCTTGTTTCAGTATTGTTG
CONTIG_249_p15_0.31% GCGCTCTC-TCTCGGCCTTCC-----TTTCTTGTTTCAGTATTGTTG
CONTIG_257_p16_0.29% GCGCTCTC-TCTCGGCCTTCCCGTAACGTTTCTTGTTTCAGTATTGTTG
CONTIG_252_p17_0.25% GCGCTCTC-TCTCGGCCTTCC-----ACGTTTCTTGTTTCAGTATTGTTG
CONTIG_251_p18_0.2% GCGCTCTC-TCTCGGCCTTCC-----CGTTTCTTGTTTCAGTATTGTTG
CONTIG_253_p19_0.17% GCGCTCTC-TCTCGGCCTTCC---AACGTTTCTTGTTTCAGTATTGTTG
CONTIG_255_p20_0.16% GCGCTCTC-TCTCGGCCTTCCG-GTAACGTTTCTTGTTTCAGTATTGTTG
CONTIG_247_p21_0.15% GCGCTCTC-TCTCGGCCTTCC-----TCTTGTTTCAGTATTGTTG
CONTIG_248_p22_0.15% GCGCTCTC-TCTCGGCCTTCC-----TTCTTGTTTCAGTATTGTTG
CONTIG_251_p23_0.15% GCGCTCTC-TCTCGGCCTTCCG-----GTTTCTTGTTTCAGTATTGTTG
CONTIG_245_p24_0.14% GCGCTCTC-TCTCGGCCT-----TTCTTGTTTCAGTATTGTTG
CONTIG_257_p25_0.14% GCGCTCTC-TCTCGGCCTTCCGTGTAACGTTTCTTGTTTCAGTATTGTTG
CONTIG_257_p26_0.13% GCGCTCTCATCTCGGCCTTCCG-GTAATGTTTCTTGTTTCAGTATTGTTG
CONTIG_253_p27_0.11% GCGCTCTC-TCTCGGCCTTCCG----ATGTTTCTTGTTTCAGTATTGTTG
CONTIG_254_p28_0.1% GCGCTCTC-TCTCGGCCTTGG---TAATGTTTCTTGTTTCAGTATTGTTG
CONTIG_251_p29_0.1% GCGCTCTCTTCTCGGCCTTCC-----GTTTCTTGTTTCAGTATTGTTG
CONTIG_254_p30_0.09% GCGCTCTC-TCTCGGCCTTCCG---AACGTTTCTTGTTTCAGTATTGTTG
CONTIG_249_p31_0.09% GCGCTCTC-TCTCGGCCTTCC-----CTTCTTGTTTCAGTATTGTTG
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Figure 2C

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NCBI_gi_392931134_255 TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_256_p1_55.02% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_256_p2_23.68% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_255_p3_5.63% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_257_p4_4.3% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_250_p5_2.36% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_257_p6_1.43% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_257_p7_1.03% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_254_p8_0.73% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_255_p9_0.64% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_255_p10_0.61% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_253_p11_0.52% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_252_p12_0.45% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_257_p13_0.39% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_249_p14_0.33% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_249_p15_0.31% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_257_p16_0.29% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_252_p17_0.25% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_251_p18_0.2% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_253_p19_0.17% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_255_p20_0.16% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_247_p21_0.15% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_248_p22_0.15% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_251_p23_0.15% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_245_p24_0.14% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_257_p25_0.14% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_257_p26_0.13% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_253_p27_0.11% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_254_p28_0.1% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_251_p29_0.1% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_254_p30_0.09% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
CONTIG_249_p31_0.09% TATTTGCTTTCATATGACCAAATTCCTTCATAATTAAAGATCGGTATAGAA
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Figure 2D

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NCBI_gi_392931134_255 GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_256_p1_55.02% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_256_p2_23.68% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_255_p3_5.63% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_257_p4_4.3% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_250_p5_2.36% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_257_p6_1.43% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_257_p7_1.03% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_254_p8_0.73% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_255_p9_0.64% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_255_p10_0.61% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_253_p11_0.52% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_252_p12_0.45% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_257_p13_0.39% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_249_p14_0.33% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_249_p15_0.31% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_257_p16_0.29% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_252_p17_0.25% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_251_p18_0.2% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_253_p19_0.17% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_255_p20_0.16% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_247_p21_0.15% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_248_p22_0.15% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_251_p23_0.15% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_245_p24_0.14% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_257_p25_0.14% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_257_p26_0.13% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_253_p27_0.11% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_254_p28_0.1% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_251_p29_0.1% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_254_p30_0.09% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
CONTIG_249_p31_0.09% GTCATAGATTACATATATGTACATTGACGGGTGAGTTTGAACAAATG
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Figure 2E

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NCBI_gi_392931134_255 TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_256_p1_55.02% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_256_p2_23.68% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_255_p3_5.63% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_257_p4_4.3% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_250_p5_2.36% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_257_p6_1.43% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_257_p7_1.03% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_254_p8_0.73% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_255_p9_0.64% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_255_p10_0.61% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_253_p11_0.52% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_252_p12_0.45% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_257_p13_0.39% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_249_p14_0.33% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_249_p15_0.31% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_257_p16_0.29% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_252_p17_0.25% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_251_p18_0.2% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_253_p19_0.17% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_255_p20_0.16% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_247_p21_0.15% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_248_p22_0.15% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_251_p23_0.15% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_245_p24_0.14% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_257_p25_0.14% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_257_p26_0.13% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_253_p27_0.11% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_254_p28_0.1% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_251_p29_0.1% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_254_p30_0.09% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
CONTIG_249_p31_0.09% TCGTTTTACTTTGTGAAATTTAATCCCTAATCATGTTTTAGGAATGCTGC
*****
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Figure 2F

NCBI_gi_392931134_255	ACCGTGCC	(SEQ ID NO:76)
CONTIG_256_p1_55.02%	ACCGTGCC	(SEQ ID NO:77)
CONTIG_256_p2_23.68%	ACCGTGCC	(SEQ ID NO:78)
CONTIG_255_p3_5.63%	ACCGTGCC	(SEQ ID NO:79)
CONTIG_257_p4_4.3%	ACCGTGCC	(SEQ ID NO:80)
CONTIG_250_p5_2.36%	ACCGTGCC	(SEQ ID NO:81)
CONTIG_257_p6_1.43%	ACCGTGCC	(SEQ ID NO:82)
CONTIG_257_p7_1.03%	ACCGTGCC	(SEQ ID NO:83)
CONTIG_254_p8_0.73%	ACCGTGCC	(SEQ ID NO:84)
CONTIG_255_p9_0.64%	ACCGTGCC	(SEQ ID NO:85)
CONTIG_255_p10_0.61%	ACCGTGCC	(SEQ ID NO:86)
CONTIG_253_p11_0.52%	ACCGTGCC	(SEQ ID NO:87)
CONTIG_252_p12_0.45%	ACCGTGCC	(SEQ ID NO:88)
CONTIG_257_p13_0.39%	ACCGTGCC	(SEQ ID NO:89)
CONTIG_249_p14_0.33%	ACCGTGCC	(SEQ ID NO:90)
CONTIG_249_p15_0.31%	ACCGTGCC	(SEQ ID NO:91)
CONTIG_257_p16_0.29%	ACCGTGCC	(SEQ ID NO:92)
CONTIG_252_p17_0.25%	ACCGTGCC	(SEQ ID NO:93)
CONTIG_251_p18_0.2%	ACCGTGCC	(SEQ ID NO:94)
CONTIG_253_p19_0.17%	ACCGTGCC	(SEQ ID NO:95)
CONTIG_255_p20_0.16%	ACCGTGCC	(SEQ ID NO:96)
CONTIG_247_p21_0.15%	ACCGTGCC	(SEQ ID NO:97)
CONTIG_248_p22_0.15%	ACCGTGCC	(SEQ ID NO:98)
CONTIG_251_p23_0.15%	ACCGTGCC	(SEQ ID NO:99)
CONTIG_245_p24_0.14%	ACCGTGCC	(SEQ ID NO:100)
CONTIG_257_p25_0.14%	ACCGTGCC	(SEQ ID NO:101)
CONTIG_257_p26_0.13%	ACCGTGCC	(SEQ ID NO:102)
CONTIG_253_p27_0.11%	ACCGTGCC	(SEQ ID NO:103)
CONTIG_254_p28_0.1%	ACCGTGCC	(SEQ ID NO:104)
CONTIG_251_p29_0.1%	ACCGTGCC	(SEQ ID NO:105)
CONTIG_254_p30_0.09%	ACCGTGCC	(SEQ ID NO:106)
CONTIG_249_p31_0.09%	ACCGTGCC	(SEQ ID NO:107)

Figure 3A

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NCBI gi 199580303 202 CCGATGGTCTTCAGTTCTCTTCCTTGTT-ATGGTCTCCCCACGTGACCC
CONTIG 207 p1 23.91% CCGATGGTCTTCAGTTCTCTTCCTTGTT-ATGGTCTCCCCACGTGACCC
CONTIG 205 p2 10.76% CCGATGGTCTTCAGTTCTCTTCCTTGTT--GGTCTCCCCACGTGACCC
CONTIG 204 p3 9.83% CCGATGGTCTTCAGTTCTCTTCCTTGTT---GTCTCCCCACGTGACCC
CONTIG 208 p4 8.98% CCGATGGTCTTCAGTTCTCTTCCTTGTTTATGGTCTCCCCACGTGACCC
CONTIG 206 p5 8.76% CCGATGGTCTTCAGTTCTCTTCCTTGTA--TGGTCTCCCCACGTGACCC
CONTIG 206 p6 5.77% CCGATGGTCTTCAGTTCTCTTCCTTGTT-ATGGTCTCCCCACGTGACCC
CONTIG 202 p7 5.69% CCGATGGTCTTCAGTTCTCTTCCTTGT-----TCTCCCCACGTGACCC
CONTIG 201 p8 5.07% CCGATGGTCTTCAGTTCTCTTCCTTG-----TCTCCCCACGTGACCC
CONTIG 203 p9 2.64% CCGATGGTCTTCAGTTCTCTTCCTTGTT---GTCTCCCCACGTGACCC
CONTIG 204 p10 2.55% CCGATGGTCTTCAGTTCTCTTCCTTGTT--GGTCTCCCCACGTGACCC
CONTIG 205 p11 2.26% CCGATGGTCTTCAGTTCTCTTCCTTGTA--TGGTCTCCCCACGTGACCC
CONTIG 207 p12 2.25% CCGATGGTCTTCAGTTCTCTTCCTTGTTTATGGTCTCCCCACGTGACCC
CONTIG 203 p13 2.13% CCGATGGTCTTCAGTTCTCTTCCTTGT----GTCTCCCCACGTGACCC
CONTIG 201 p14 1.46% CCGATGGTCTTCAGTTCTCTTCCTTGT-----TCTCCCCACGTGACCC
CONTIG 200 p15 1.24% CCGATGGTCTTCAGTTCTCTTCCTTG-----TCTCCCCACGTGACCC
CONTIG 200 p16 1.21% CCGATGGTCTTCAGTTCTCTTCCTTGT-----TCCCCACGTGACCC
CONTIG 199 p17 1.2% CCGATGGTCTTCAGTTCTCTTCCTTGT-----CCCCACGTGACCC
CONTIG 204 p18 0.89% CCGATGGTCTTCAGTTCTCTTCCTTGTT---GTCTCCCCACGTGACCC
CONTIG 208 p19 0.66% CCGATGGTCTTCAGTTCTCTTCCTTGTAATGGTCTCCCCACGTGACCC
CONTIG 202 p20 0.46% CCGATGGTCTTCAGTTCTCTTCCTTGT----GTCTCCCCACGTGACCC
CONTIG 203 p21 0.44% CCGATGGTCTTCAGTTCTCTTCCTTGTT----TCTCCCCACGTGACCC
CONTIG 202 p22 0.38% CCGATGGTCTTCAGTTCTCTTCCTTG-----GTCTCCCCACGTGACCC
CONTIG 206 p23 0.32% CCGATGGTCTTCAGTTCTCTTCCTTGTT--TGGTCTCCCCACGTGACCC
CONTIG 198 p24 0.28% CCGATGGTCTTCAGTTCTCTTCCTTGT-----CCCCACGTGACCC
CONTIG 201 p25 0.28% CCGATGGTCTTCAGTTCTCTTCCTTGT-----TTCCCCACGTGACCC
CONTIG 203 p26 0.23% CCGATGGTCTTCAGTTCTCTTCCTTGTT---GTCTCCCCACGTGACCC
CONTIG 199 p27 0.21% CCGATGGTCTTCAGTTCTCTTCCTTGT-----TCCCCACGTGACCC
*****

NCBI gi 199580303 202 TCAACAACATAAGGTACTTAACCATA----ATAAAGCTTCAGATGTCTC
CONTIG 207 p1 23.91% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 205 p2 10.76% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 204 p3 9.83% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 208 p4 8.98% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 206 p5 8.76% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 206 p6 5.77% TCAACAACATAAGGTACTTAACAATA-ATAAATAAAGCCTCAGATGTCTC
CONTIG 202 p7 5.69% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 201 p8 5.07% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 203 p9 2.64% TCAACAACATAAGGTACTTAACAATA-ATAAATAAAGCCTCAGATGTCTC
CONTIG 204 p10 2.55% TCAACAACATAAGGTACTTAACAATA-ATAAATAAAGCCTCAGATGTCTC
CONTIG 205 p11 2.26% TCAACAACATAAGGTACTTAACAATA-ATAAATAAAGCCTCAGATGTCTC
CONTIG 207 p12 2.25% TCAACAACATAAGGTACTTAACAATA-ATAAATAAAGCCTCAGATGTCTC
CONTIG 203 p13 2.13% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 201 p14 1.46% TCAACAACATAAGGTACTTAACAATA-ATAAATAAAGCCTCAGATGTCTC
CONTIG 200 p15 1.24% TCAACAACATAAGGTACTTAACAATA-ATAAATAAAGCCTCAGATGTCTC
CONTIG 200 p16 1.21% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 199 p17 1.2% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 204 p18 0.89% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 208 p19 0.66% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 202 p20 0.46% TCAACAACATAAGGTACTTAACAATA-ATAAATAAAGCCTCAGATGTCTC
CONTIG 203 p21 0.44% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 202 p22 0.38% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 206 p23 0.32% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 198 p24 0.28% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 201 p25 0.28% TCAACAACATAAGGTACTTAACAATAAATAAATAAAGCCTCAGATGTCTC
CONTIG 203 p26 0.23% TCAACAACATAAGGTACTTAACAATA-ATAAATAAAGCCTCAGATGTCTC
CONTIG 199 p27 0.21% TCAACAACATAAGGTACTTAACAATA-ATAAATAAAGCCTCAGATGTCTC
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Figure 3B

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NCBI gi 199580303 202 ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 207 p1 23.91% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 205 p2 10.76% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 204 p3 9.83% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 208 p4 8.98% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 206 p5 8.76% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 206 p6 5.77% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 202 p7 5.69% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 201 p8 5.07% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 203 p9 2.64% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 204 p10 2.55% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 205 p11 2.26% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 207 p12 2.25% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 203 p13 2.13% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 201 p14 1.46% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 200 p15 1.24% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 200 p16 1.21% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 199 p17 1.2% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 204 p18 0.89% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 208 p19 0.66% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 202 p20 0.46% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 203 p21 0.44% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 202 p22 0.38% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 206 p23 0.32% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 198 p24 0.28% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 201 p25 0.28% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 203 p26 0.23% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
CONTIG 199 p27 0.21% ATCCATGAACCGGTGCTGATTGTCTTTCTCCTTAGGATCAAGTCGTTGCT
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NCBI gi 199580303 202 TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 207 p1 23.91% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 205 p2 10.76% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 204 p3 9.83% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 208 p4 8.98% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 206 p5 8.76% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 206 p6 5.77% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 202 p7 5.69% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 201 p8 5.07% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 203 p9 2.64% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 204 p10 2.55% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 205 p11 2.26% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 207 p12 2.25% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 203 p13 2.13% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 201 p14 1.46% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 200 p15 1.24% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 200 p16 1.21% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 199 p17 1.2% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 204 p18 0.89% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 208 p19 0.66% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 202 p20 0.46% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 203 p21 0.44% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 202 p22 0.38% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 206 p23 0.32% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 198 p24 0.28% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 201 p25 0.28% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 203 p26 0.23% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
CONTIG 199 p27 0.21% TATGTCGAATACTTTGGTCAGTTCACATCAGAGCAATCCCTGATGATAT
*****
```

Figure 3C

NCBI gi 199580303	202	TGCTGAGG	(SEQ ID NO:108)
CONTIG 207	p1 23.91%	TGCTGAGG	(SEQ ID NO:109)
CONTIG 205	p2 10.76%	TGCTGAGG	(SEQ ID NO:110)
CONTIG 204	p3 9.83%	TGCTGAGG	(SEQ ID NO:111)
CONTIG 208	p4 8.98%	TGCTGAGG	(SEQ ID NO:112)
CONTIG 206	p5 8.76%	TGCTGAGG	(SEQ ID NO:113)
CONTIG 206	p6 5.77%	TGCTGAGG	(SEQ ID NO:114)
CONTIG 202	p7 5.69%	TGCTGAGG	(SEQ ID NO:115)
CONTIG 201	p8 5.07%	TGCTGAGG	(SEQ ID NO:116)
CONTIG 203	p9 2.64%	TGCTGAGG	(SEQ ID NO:117)
CONTIG 204	p10 2.55%	TGCTGAGG	(SEQ ID NO:118)
CONTIG 205	p11 2.26%	TGCTGAGG	(SEQ ID NO:119)
CONTIG 207	p12 2.25%	TGCTGAGG	(SEQ ID NO:120)
CONTIG 203	p13 2.13%	TGCTGAGG	(SEQ ID NO:121)
CONTIG 201	p14 1.46%	TGCTGAGG	(SEQ ID NO:122)
CONTIG 200	p15 1.24%	TGCTGAGG	(SEQ ID NO:123)
CONTIG 200	p16 1.21%	TGCTGAGG	(SEQ ID NO:124)
CONTIG 199	p17 1.2%	TGCTGAGG	(SEQ ID NO:125)
CONTIG 204	p18 0.89%	TGCTGAGG	(SEQ ID NO:126)
CONTIG 208	p19 0.66%	TGCTGAGG	(SEQ ID NO:127)
CONTIG 202	p20 0.46%	TGCTGAGG	(SEQ ID NO:128)
CONTIG 203	p21 0.44%	TGCTGAGG	(SEQ ID NO:129)
CONTIG 202	p22 0.38%	TGCTGAGG	(SEQ ID NO:130)
CONTIG 206	p23 0.32%	TGCTGAGG	(SEQ ID NO:131)
CONTIG 198	p24 0.28%	TGCTGAGG	(SEQ ID NO:132)
CONTIG 201	p25 0.28%	TGCTGAGG	(SEQ ID NO:133)
CONTIG 203	p26 0.23%	TGCTGAGG	(SEQ ID NO:134)
CONTIG 199	p27 0.21%	TGCTGAGG	(SEQ ID NO:135)

Figure 4A

```
NCBI_gi_22123_230      TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACG--
CONTIG_230_p1_76.03%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACG--
CONTIG_264_p2_4.18%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGA--
CONTIG_231_p3_1.21%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGT-
CONTIG_292_p4_1.2%     TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNNN
CONTIG_262_p5_1%       TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGT-
CONTIG_229_p6_0.93%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACG--
CONTIG_262_p7_0.92%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGA-
CONTIG_292_p8_0.92%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNN
CONTIG_225_p9_0.91%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGT-
CONTIG_292_p10_0.8%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNN
CONTIG_292_p11_0.74%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNN
CONTIG_292_p12_0.73%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNN
CONTIG_224_p13_0.63%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGA- ---
CONTIG_227_p14_0.62%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACG--
CONTIG_231_p15_0.61%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGC-
CONTIG_292_p16_0.61%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNN
CONTIG_292_p17_0.6%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNN
CONTIG_292_p18_0.58%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNN
CONTIG_229_p19_0.54%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGAC- ---
CONTIG_260_p20_0.54%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGG-
CONTIG_259_p21_0.52%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGA-
CONTIG_258_p22_0.5%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGG-
CONTIG_261_p23_0.46%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGATA- --
CONTIG_243_p24_0.42%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTACC-----
CONTIG_221_p25_0.41%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGAC- ---
CONTIG_237_p26_0.36%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGG-
CONTIG_292_p27_0.36%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNN
CONTIG_263_p28_0.32%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGG-
CONTIG_227_p29_0.32%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGAC- ---
CONTIG_264_p30_0.32%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGA-
CONTIG_226_p31_0.32%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGAC- ---
CONTIG_264_p32_0.31%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACGGT
CONTIG_292_p33_0.3%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNN
CONTIG_292_p34_0.3%    TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGNNNN
CONTIG_229_p35_0.27%   TGGAGGTGCGCGTCAAGATCCTCTTCACCTCGCTCTGCCACACCGACG--
***** *
```

Figure 4B

```

NCBI_gi_22123_230
CONTIG_230_p1_76.03%
CONTIG_264_p2_4.18%
CONTIG_231_p3_1.21%
CONTIG_292_p4_1.2%
CONTIG_262_p5_1%
CONTIG_229_p6_0.93%
CONTIG_262_p7_0.92%
CONTIG_292_p8_0.92%
CONTIG_225_p9_0.91%
CONTIG_292_p10_0.8%
CONTIG_292_p11_0.74%
CONTIG_292_p12_0.73%
CONTIG_224_p13_0.63%
CONTIG_227_p14_0.62%
CONTIG_231_p15_0.61%
CONTIG_292_p16_0.61%
CONTIG_292_p17_0.6%
CONTIG_292_p18_0.58%
CONTIG_229_p19_0.54%
CONTIG_260_p20_0.54%
CONTIG_259_p21_0.52%
CONTIG_258_p22_0.5%
CONTIG_261_p23_0.46%
CONTIG_243_p24_0.42%
CONTIG_221_p25_0.41%
CONTIG_237_p26_0.36%
CONTIG_292_p27_0.36%
CONTIG_263_p28_0.32%
CONTIG_227_p29_0.32%
CONTIG_264_p30_0.32%
CONTIG_226_p31_0.32%
CONTIG_264_p32_0.31%
CONTIG_292_p33_0.3%
CONTIG_292_p34_0.3%
CONTIG_229_p35_0.27%
-----
-----
-----TACCGTT--ATT
-----GA-GTTGTCATATGTTAATAACGGTATG-TTTAATTGAGTT
-----TTAATTGAGTT
-----TACCGTT--ATT
--T-----GA-GTTGTCATATGTTAATAACGGTATG--TTAATTGAGTT
--T-----ATTAACATATGACAACTCAATTAACTACCGTT--ATT
GTT-TAATTGA-GTTGTCATATGTTAATAACGGTAT--TACCGTT--ATT
-----G-----G-----TTTAATTGAGTT
-----
-----GA-GTTGTCATATGTTAATAACGGTATA-TACCGTT--ATT
--T-----TGA-GTTGTCATATGTTAATAACGGTA--TACCGTT--ATT
--T-TAATTGA-GTTGTCATATGTTAATAACGGTA--TACCGTT--ATT
-----TTTAATTGAGTT
-----TACCGTT--ATT
-----TTTAATTGAGTT
-----CCGTT--ATT
-----GTT--ATT
-----TTT-----
--C-----CGTTATTAACATATGACAACTCAATTA--TACCGTT--ATT
-----TTTAATTGAGTT
-----TACCGTT--ATT
-----TAATTGAGTT
-----A-GTTGTCATATGTTAATAACGGTATA-TACCGTT--ATT
--TATAATCCT-----C--ATGTCAGCCATGGAGTA-TTGGA--ATA
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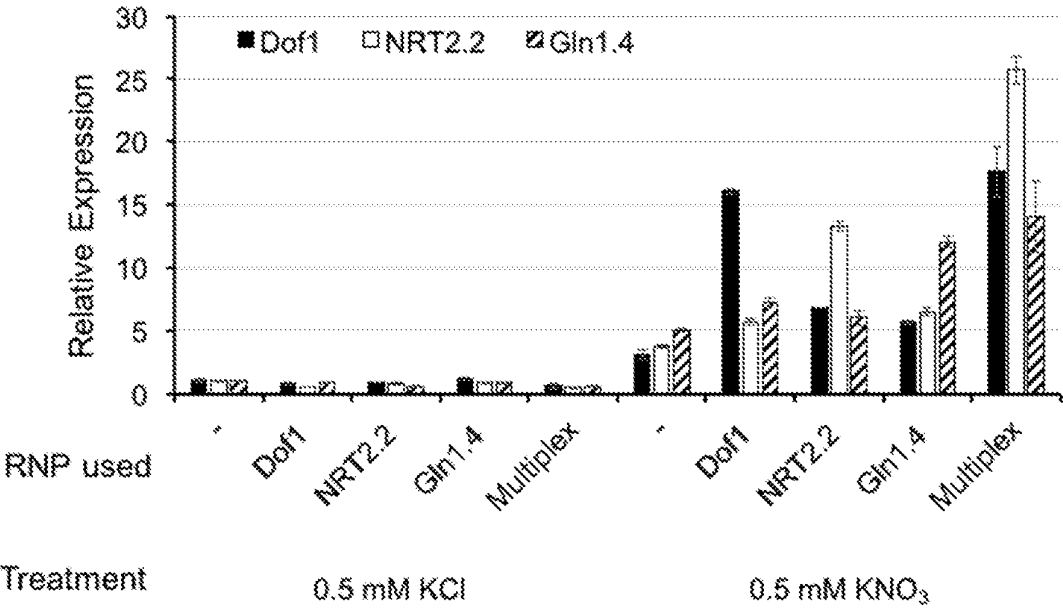
Figure 4C

NCBI_gi_22123_230	-----TCT-----
CONTIG_230_p1_76.03%	-----TCT-----
CONTIG_264_p2_4.18%	AACATATGACAA-CTCAATTAAAC-TCT-----
CONTIG_231_p3_1.21%	-----TCT-----
CONTIG_292_p4_1.2%	GTCATATGTTAA-T--AACGGTAT-TCT-----
CONTIG_262_p5_1%	GTCATATGTTAA-T--AACGGTA--TCT-----
CONTIG_229_p6_0.93%	-----TCT-----
CONTIG_262_p7_0.92%	AACATATGACAA-CTCAATTAAA--CT-----
CONTIG_292_p8_0.92%	GTCATATGTTAA-T--AACGGTAT-TCT-----
CONTIG_225_p9_0.91%	-----
CONTIG_292_p10_0.8%	AACATATGACAA-CTCAATTAAAC-TCT-----
CONTIG_292_p11_0.74%	AACATATGACAA-CTCAATTAA-----
CONTIG_292_p12_0.73%	GTCATATGTTAA-T--AACGGTAG-TTTAATTGAGTTGTCATATGTTAAT
CONTIG_224_p13_0.63%	-----
CONTIG_227_p14_0.62%	-----
CONTIG_231_p15_0.61%	-----TCT-----
CONTIG_292_p16_0.61%	AACATATGACAA-CTCAATTAAAC-TCT-----
CONTIG_292_p17_0.6%	AACATATGACAA-CTCAATTAAAC-TCT-----
CONTIG_292_p18_0.58%	AACATATGACAA-CTCAATTAA-----
CONTIG_229_p19_0.54%	-----TCT-----
CONTIG_260_p20_0.54%	GTCATATGTTAA-T--AACGGTA-----
CONTIG_259_p21_0.52%	AACATATGACAA-CTCAATTAA-----
CONTIG_258_p22_0.5%	GTCATATGTTAA-T--AACGGT-----
CONTIG_261_p23_0.46%	AACATATGACAA-CTCAATTAAAC-TCT-----
CONTIG_243_p24_0.42%	AACATATGACAA-CTCAATTAAA--CCT-----
CONTIG_221_p25_0.41%	-----
CONTIG_237_p26_0.36%	-----A-----A-----T-TCT-----
CONTIG_292_p27_0.36%	AACATATGACAA-CTCAATTAAA--CCT-----
CONTIG_263_p28_0.32%	GTCATATGTTAA-T--AACGGTA--TCT-----
CONTIG_227_p29_0.32%	-----T-----
CONTIG_264_p30_0.32%	AACATATGACAA-CTCAATTAAAC-TCT-----
CONTIG_226_p31_0.32%	-----
CONTIG_264_p32_0.31%	GTCATATGTTAA-T--AACGGTAT-TCT-----
CONTIG_292_p33_0.3%	AACATATGACAA-CTCAATTAAACATCT-----
CONTIG_292_p34_0.3%	CAGAAATT-CATGGTTGGTGA-CATCT-----
CONTIG_229_p35_0.27%	-----CT-----

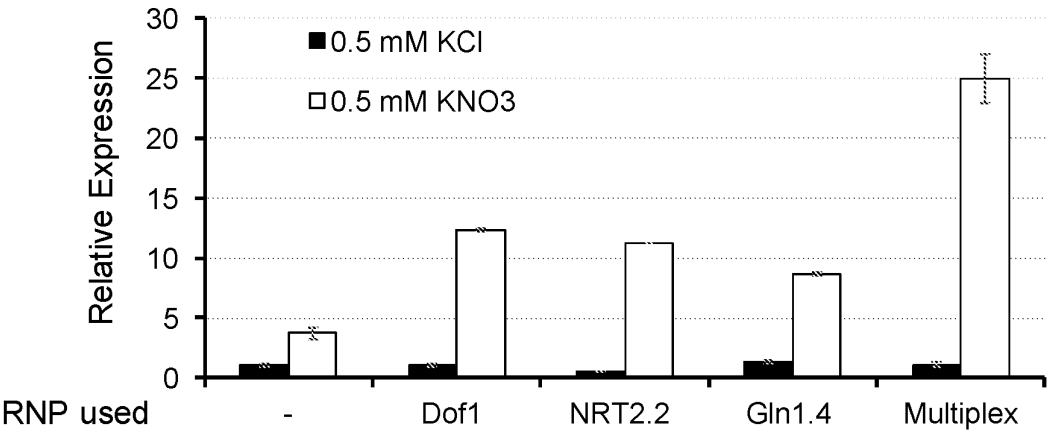
Figure 4D

NCBI_gi_22123_230 NO: 269)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_230_p1_76.03% NO: 270)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_264_p2_4.18% NO: 271)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_231_p3_1.21% NO: 272)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p4_1.2% NO: 273)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_262_p5_1% NO: 274)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_229_p6_0.93% NO: 275)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_262_p7_0.92% NO: 276)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p8_0.92% NO: 277)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_225_p9_0.91% NO: 278)	-----TCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p10_0.8% NO: 279)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p11_0.74% NO: 280)	-----ACCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p12_0.73% NO: 281)	AACG-GTATTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_224_p13_0.63% NO: 282)	-----CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_227_p14_0.62% NO: 283)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_231_p15_0.61% NO: 284)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p16_0.61% NO: 285)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p17_0.6% NO: 286)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p18_0.58% NO: 287)	---ACCTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_229_p19_0.54% NO: 288)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_260_p20_0.54% NO: 289)	---T-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_259_p21_0.52% NO: 290)	---A-CTTCTGGGAGGCCAAGGTATCTAATTAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_258_p22_0.5% NO: 291)	-----ATTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_261_p23_0.46% NO: 292)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_243_p24_0.42% NO: 293)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_221_p25_0.41% NO: 294)	-----GGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_237_p26_0.36% NO: 295)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p27_0.36% NO: 296)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_263_p28_0.32% NO: 297)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_227_p29_0.32% NO: 298)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_264_p30_0.32% NO: 299)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_226_p31_0.32% NO: 300)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_264_p32_0.31% NO: 301)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p33_0.3% NO: 302)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_292_p34_0.3% NO: 303)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID
CONTIG_229_p35_0.27% NO: 304)	---A-CTTCTGGGAGGCCAAGGTATCTAATCAGCCATCCCATTGTGATC	(SEQ ID

Figure 5



A



B

Figure 6

