

Figure 1

	Core-binding sequence							Overlap sequence							Core-binding sequence						
<i>attB</i>	C	T	G	C	T	T	T	T	T	T	A	T	A	C	T	A	A	C	T	T	G
<i>attH</i>	C	T	G	C	T	T	T	C	T	T	A	T	A	C	C	A	A	G	T	G	G
<i>attH4X</i>	A	C	G	C	T	T	T	A	T	T	T	C	A	T	T	A	A	G	T	T	G

<i>attP</i>	C	A	G	C	T	T	T	T	T	T	A	T	A	C	T	A	A	G	T	T	G
<i>attPH</i>	C	A	G	C	T	T	T	C	T	T	A	T	A	C	C	A	A	G	T	G	G
<i>attP4X</i>	C	A	G	C	T	T	T	A	T	T	T	C	A	T	T	A	A	G	T	T	G

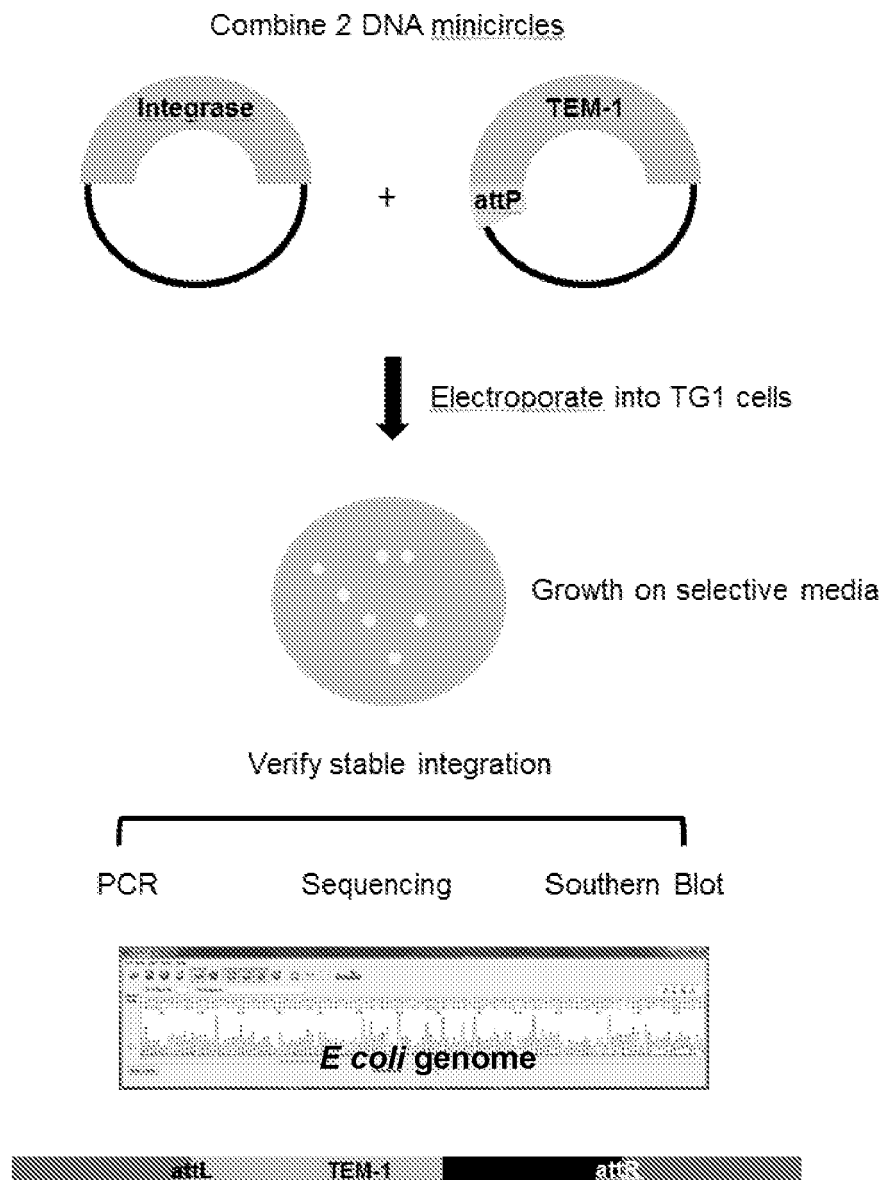
Figure 2

Figure 3A

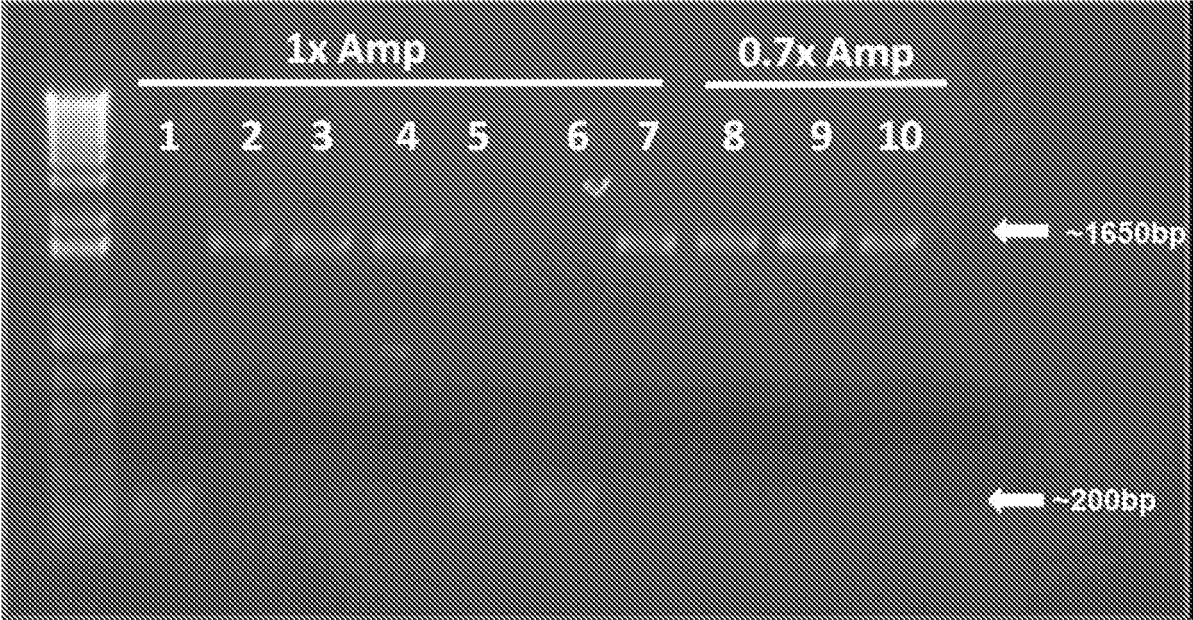


Figure 3B

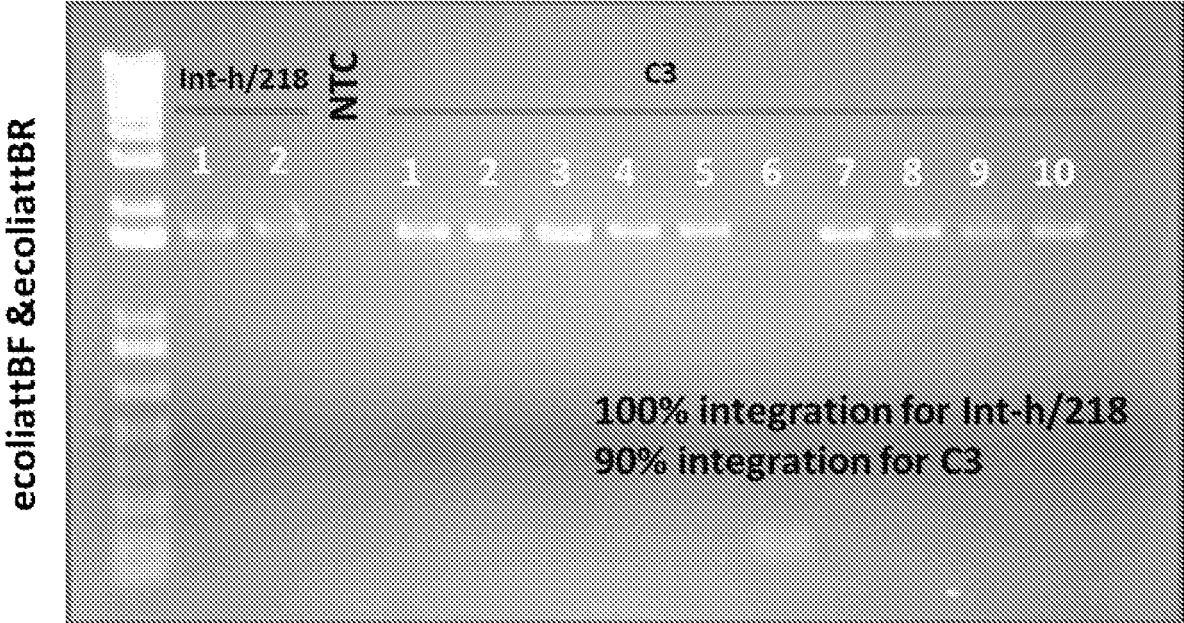


Figure 3C

tgaatccgttgaagc**CTGCTTTTTTATACTAAGTTGGCATTATAAAAAAGCATTGCTTA**
TCAATTTGTTGCAACGAACAGGTCACTATCAGTCAAAATAAAATCATTATTTGA
TTTCCCGGTGATGTTCAAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCT
 ATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACC
 CTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTC
 CGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACC
 CAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGT
 GGGTTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCC
 CCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCG
 GTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATACACT
 ATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACG
 GATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATA
 ACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAAC
 CGCTTTTTTGCACAACATGGGGGATCATGTAACCTCGCCTTGATCGTTGGGAAC
 CGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGATGCCTG
 CAGCAATGGCAACAACGTTGCGCAAACCTATTAACCTGGCGAACTACTTACTCTA
 GCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGAC
 CACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCTGGA
 GCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTA
 AGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGA
 TGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGT
 AACTGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAACTTTCATTTT
 TAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAATCC
 CTTAACGTGAGTTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAG
 GATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAA
 ACCACCGCTACCAGCGGTGGTTTGTGTTGCCGGATCAAGAGCTACCAACTCTTTT
 CCGAAGGTAACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTCCTTCTAGTG
 TAGGAATTCCACAGAATTCCGT**CTGTACAGGTCACTAATACCATCTAAGTAGT**
TGATTCATAGTGA**CTGCATATATTGTGTTTTACAGTATTATGTAGTCTGTTTTT**
ATGCAAAATCTAATTTAATATATTGATATTTATATCATTTTACGTTTCTCGTTCA
GCTTTTTTATACTAACTTGagcgaaacgggaaggtaaaaaagacat

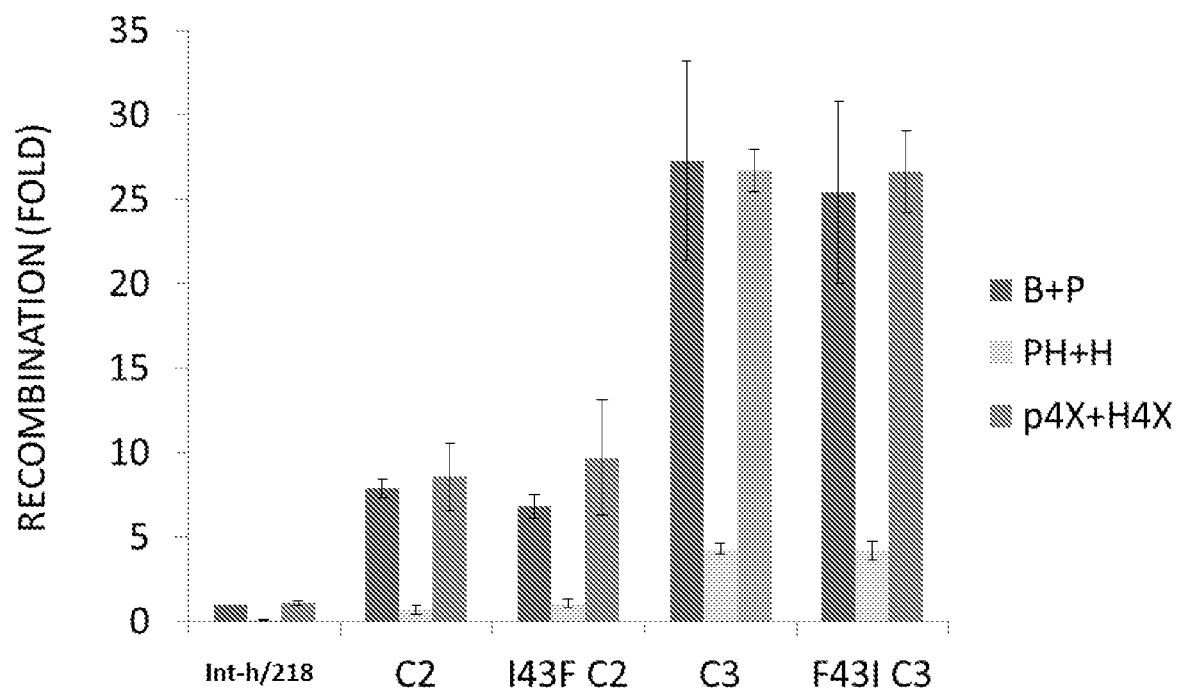
Figure 4A

Figure 4B

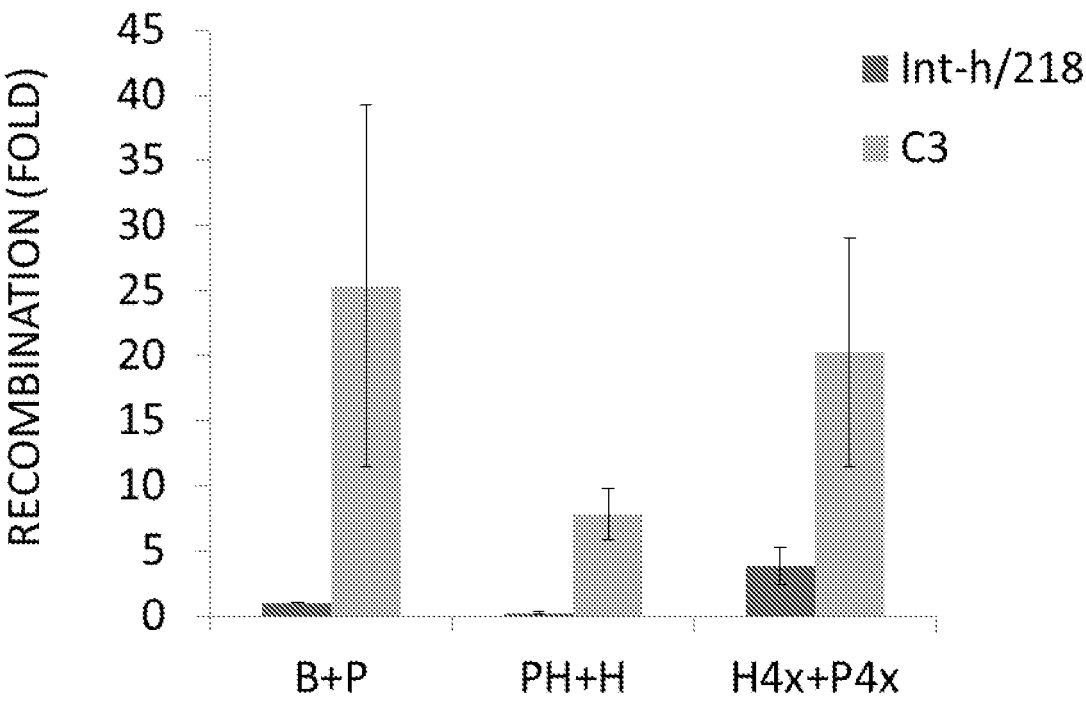


Figure 5A

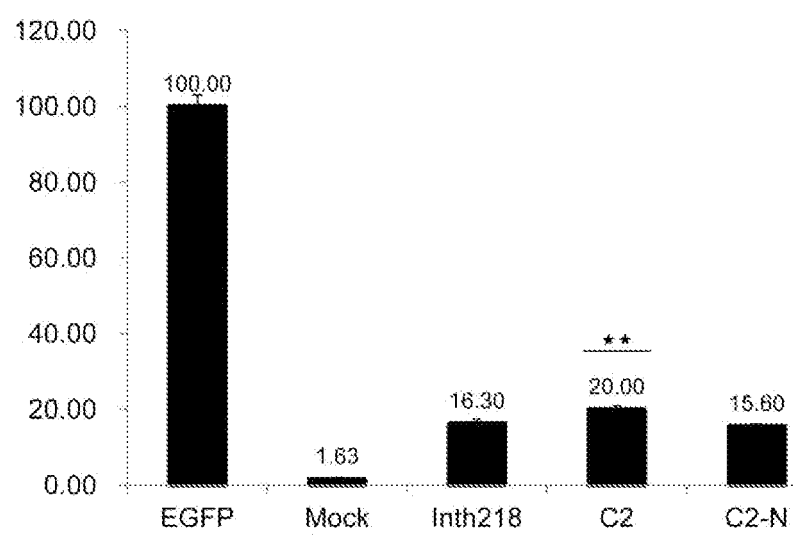


Figure 5B

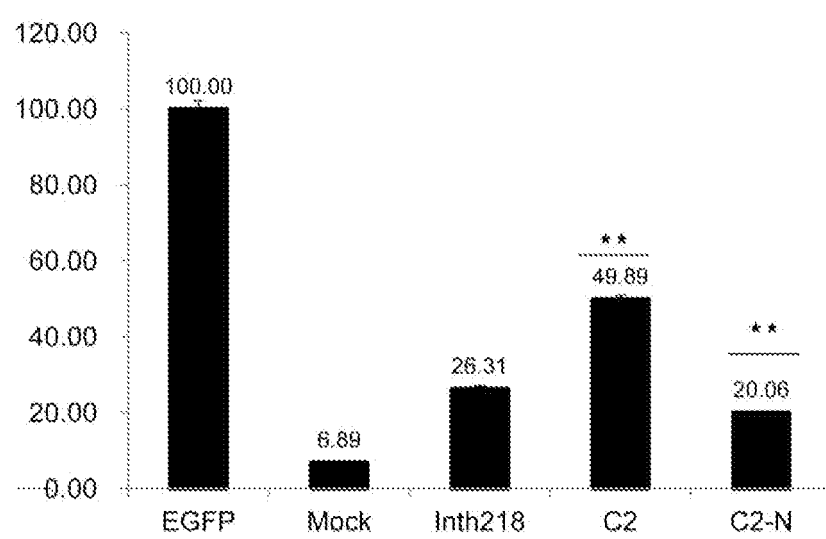


Figure 5C

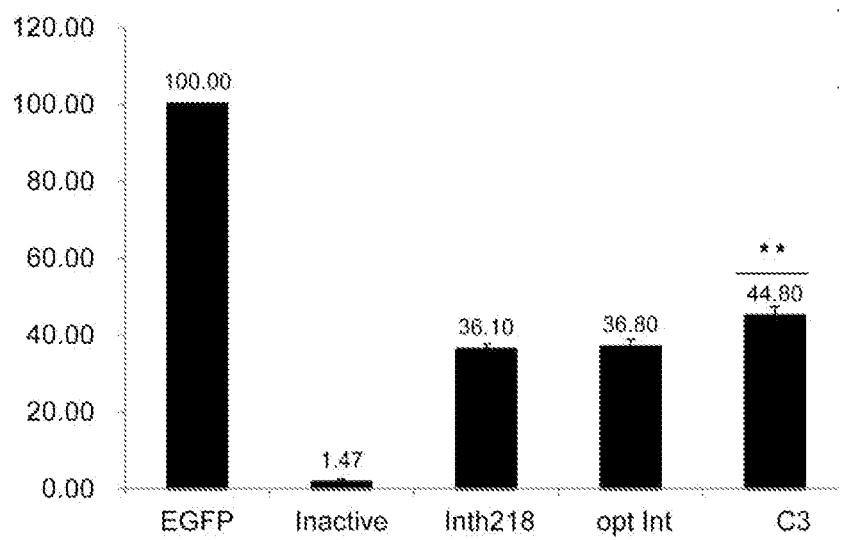


Figure 5D

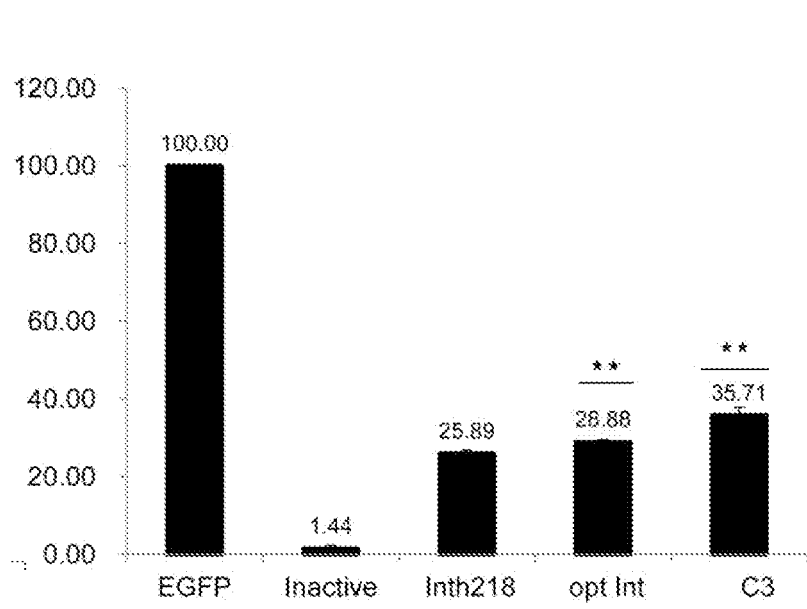


Figure 6A

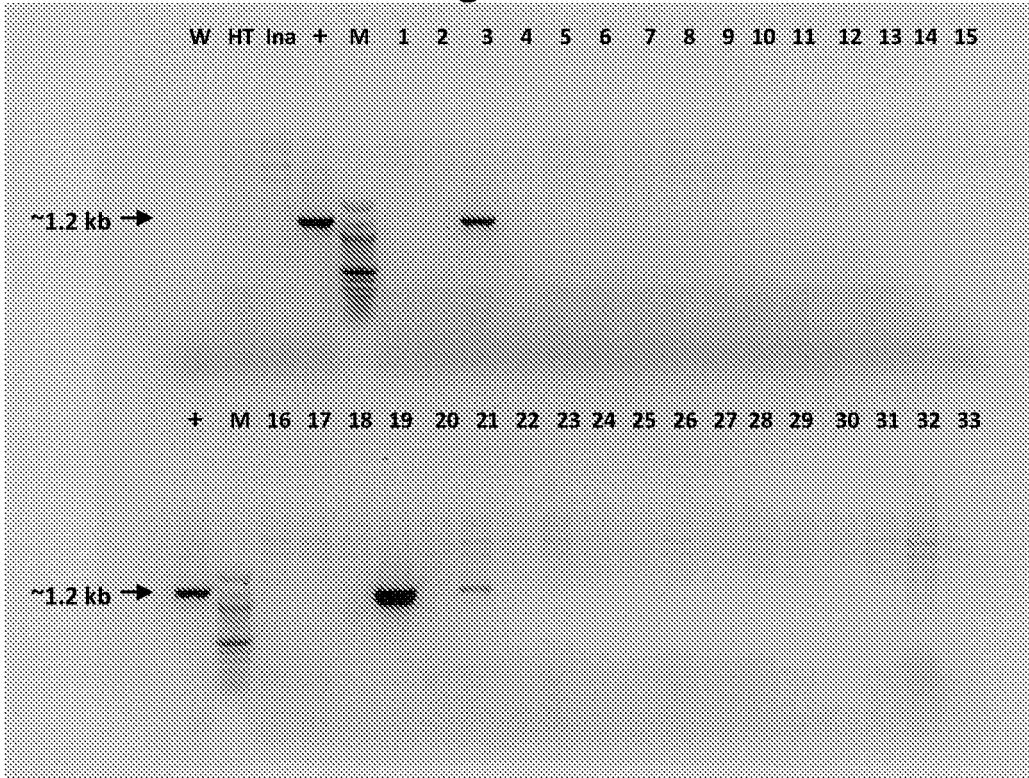


Figure 6B

clone 3

ctttatgacccagtcacgttggttgggtcttttcacatagtcccatggttcttgagattt
 tgttcattccttctcattccttttttctcctaattctgtctc**ATGCTTTATTTCATTAAGTTG**
GCATTATAAAAAAGCATTGCTTATCAATTTGTTGCAACGAACAGGTCACTATCAGTCAAAT
ACAATCATTATTTGATTTCAATTTTGTCCCACTCCCTCCCGAATTCTACCGGGTAGGGGAGG
 CGCTTTTCCCAAGGCAGTCTGGAGCATGCGCTTTAGCAGCCCCGCTGGGCACCTGGCGCTAC
 ACAAGTGGCCTCTGGCCTCGCACACATTCCACATCCACCGGTAGGCGCCAACCGGCTCCGTT
 CTTTGGTGGCCCCTTCGCGCCACCTTCTACTCCTCCCCTAGTCAGGAAGTTCCCCCCCCGCC
 CGCAGCTCGCGTCGTGCAGGACGTGACAAATGGAAGTAGCACGTCTCACTAGTCTCGTGCAG
 ATGGACAGCACCGCTGAGCAATGGAAGCGGGTAGGCCTTTGGGGCAGCGGCCAATAGCAGCT
 Targeted locus: **Chromosome 19 (35188923-35188943)**

clone 19

gattcggttaaccaatcaaagtgaagcttggtcttttcacataatcccatattttttggaggc
 tttgttcatttcttttcattccttttttctcctaattctgtctc**ATGCTTTATTTCATTAAGTT**
GGCATTATAAAAAAGCATTGCTTATCAATTTGTTGCAACGAACAGGTCACTATCAGTCAAAA
TACAATCATTATTTGATTTCAATTTTGTCCCACTCCCTCCCGAATTCTACCGGGTAGGGGAG
 GCGCTTTTCCCAAGGCAGTCTGGAGCATGCGCTTTAGCAGCCCCGCTGGGCACCTGGCGCTA
 CACAAGTGGCCTCTGGCCTCGCACACATTCCACATCCACCGGTAGGCGCCAACCGGCTCCGT
 TCTTTGGTGGCCCCTTCGCGCCACCTTCTACTCCTCCCCTAGTCAGGAAGTTCCCCCCCCGCC
 CCGCAGCTCGCGTCGTGCAGGACGTGACAAATGGAAGTAGCACGTCTCACTAGTCTCGTGCA
 GATGGACAGCACCGCTGAGCAATGGAAGCGGGTAGGCCTTTGGGGCAGCGGCCAATAGCAGC
 Targeted locus: **Chromosome 2 (153753805-153753825)**