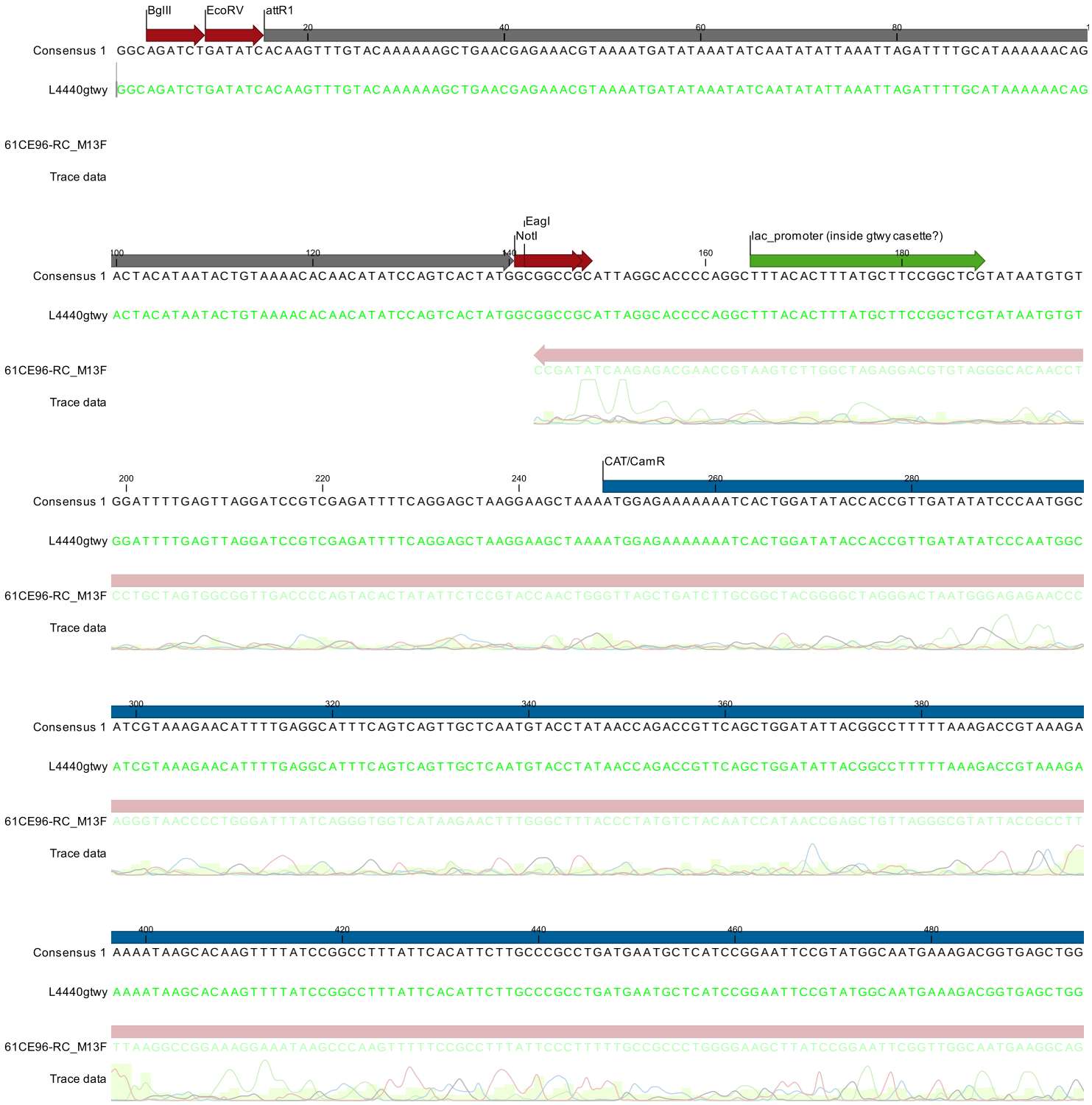
BglII
EcoRV
attR1
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L4440gtwy GGCAGATCTGATATCACAAGTTTGTACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATATTAAATTAGATTTTGCATAAAAAACAG
61CE96-RC_M13F
Trace data
EagI
NotI
lac_promoter (inside gtwy casette?)
Consensus 1 ACTACATAATACTGTAAAACACAACATATCCAGTCACTATGGCGGCCGCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATAATGTGT
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Trace data
CAT/CamR
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61CE96-RC_M13F CCTGCTAGTGGCGGTTGACCCCAGTACACTATATTCTCCGTACCAACTGGGTTAGCTGATCTTGCGGCTACGGGGCTAGGGACTAATGGGAGAGAACCC
Trace data
Consensus 1 ATCGTAAAGAACATTTTGAGGCATTTCAGTCAGTTGCTCAATGTACCTATAACCAGACCGTTCAGCTGGATATTACGGCCTTTTTAAAGACCGTAAAGA
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Trace data
Consensus 1 AAAATAAGCACAAGTTTTATCCGGCCTTTATTCACATTCTTGCCCGCCTGATGAATGCTCATCCGGAATTCCGTATGGCAATGAAAGACGGTGAGCTGG
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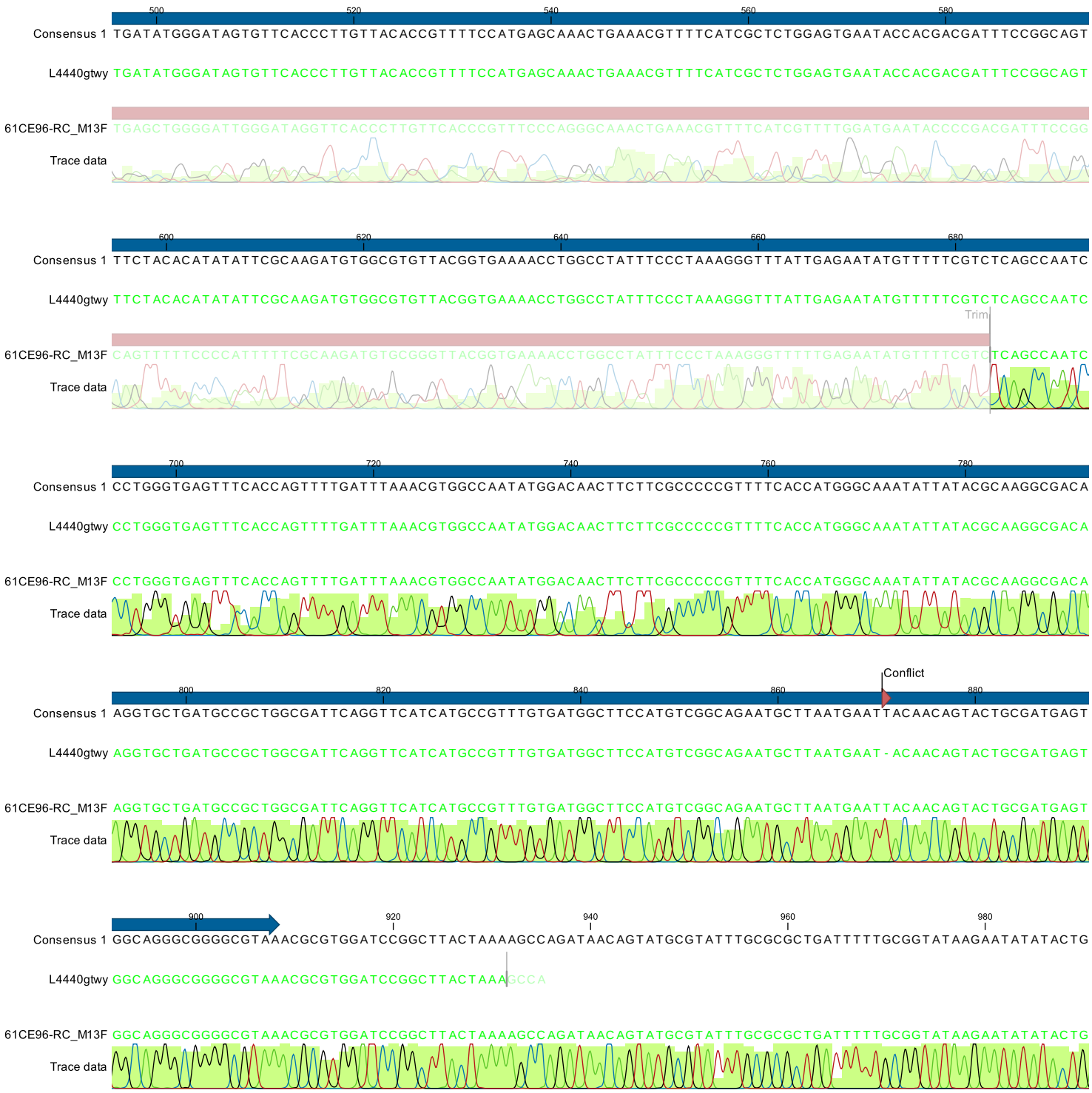
500 520 540 560 580
Consensus 1 TGATATGGGATAGTGTTCACCCTTGTTACACCGTTTTCCATGAGCAAACTGAAACGTTTTCATCGCTCTGGAGTGAATACCACGACGATTTCCGGCAGT
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61CE96-RC_M13F TGAGCTGGGGATTGGGATAGGTTCACCCTTGTTCACCCGTTTCCCAGGGCAAACTGAAACGTTTTCATCGTTTTGGATGAATACCCCGACGATTTCCGG
Trace data
600 620 640 660 680
Consensus 1 TTCTACACATATATTCGCAAGATGTGGCGTGTTACGGTGAAAACCTGGCCTATTTCCCTAAAGGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATC
L4440gtwy TTCTACACATATATTCGCAAGATGTGGCGTGTTACGGTGAAAACCTGGCCTATTTCCCTAAAGGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATC
Trim
61CE96-RC_M13F CAGTTTTTCCCCATTTTTCGCAAGATGTGCGGGTTACGGTGAAAACCTGGCCTATTTCCCTAAAGGGTTTTTGAGAATATGTTTTCGTCTCAGCCAATC
Trace data
700 720 740 760 780
Consensus 1 CCTGGGTGAGTTTCACCAGTTTTGATTTAAACGTGGCCAATATGGACAACTTCTTCGCCCCCGTTTTCACCATGGGCAAATATTATACGCAAGGCGACA
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61CE96-RC_M13F CCTGGGTGAGTTTCACCAGTTTTGATTTAAACGTGGCCAATATGGACAACTTCTTCGCCCCCGTTTTCACCATGGGCAAATATTATACGCAAGGCGACA
Trace data
Conflict
800 820 840 860 880
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Trace data
900 920 940 960 980
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L4440gtwy GGCAGGGCGGGGCGTAAACGCGTGGATCCGGCTTACTAAAGCCA
61CE96-RC_M13F GGCAGGGCGGGGCGTAAACGCGTGGATCCGGCTTACTAAAGCCAGATAACAGTATGCGTATTTGCGCGCTGATTTTTGCGGTATAAGAATATATACTG
Trace data

1.000 1.020 1.040 1.060 1.080

Consensus 1 ATATGTATACCCGAAGTATGTCAAAAAGAGGTATGCTATGAAGCAGCGTATTACAGTGACAGTTGACAGCGACAGCTATCAGTTGCTCAAGGCATATAT

L4440gtwy

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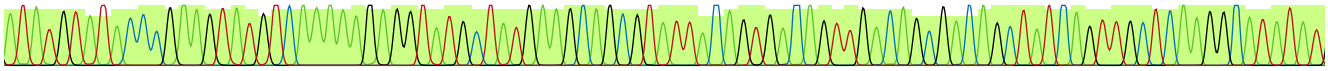
Trace data



1.100 1.120 1.140 1.160 1.180

Consensus 1 GATGTCAATATCTCCGGTCTGGTAAGCACAACCATGCAGAATGAAGCCCGTCGTCTGCGTGCCGAACGCTGGAAAGCGGAAAATCAGGAAGGGATGGCT

L4440gtwy

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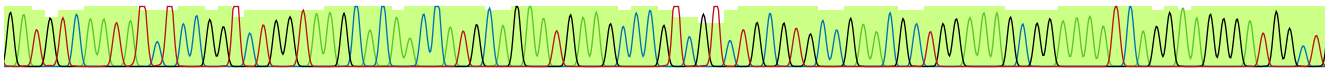
Trace data



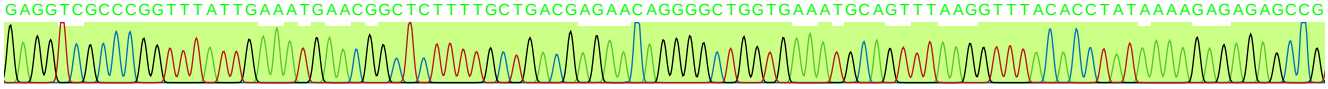
1.200 1.220 1.240 1.260 1.280

Consensus 1 GAGGTCGCCCGGTTTATTGAAATGAACGGCTCTTTTGCTGACGAGAACAGGGGCTGGTGAAATGCAGTTTAAGGTTTACACCTATAAAAGAGAGAGCCG

L4440gtwy

61CE96-RC_M13F GAGGTCGCCCGGTTTATTGAAATGAACGGCTCTTTTGCTGACGAGAACAGGGGCTGGTGAAATGCAGTTTAAGGTTTACACCTATAAAAGAGAGAGCCG

Trace data



1.300 1.320 1.340 1.360 1.380

Consensus 1 TTATCGTCTGTTTGTGGATGTACAGAGTGATATTATTGACACGCCCGGGCGACGGATGGTGATCCCCCTGGCCAGTGCACGTCTGCTGTCAGATAAAGT

L4440gtwy

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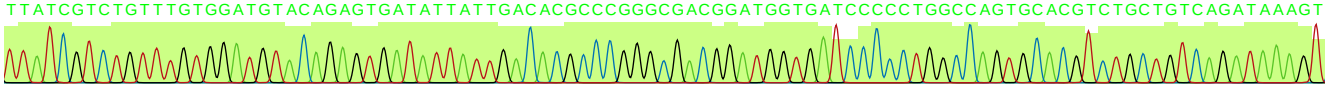
Trace data



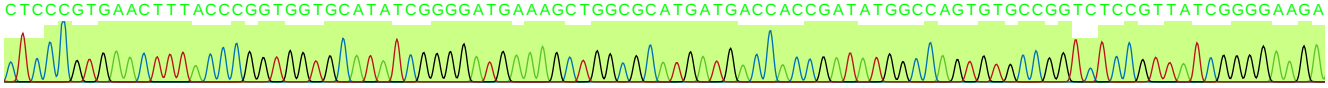
1.400 1.420 1.440 1.460 1.480

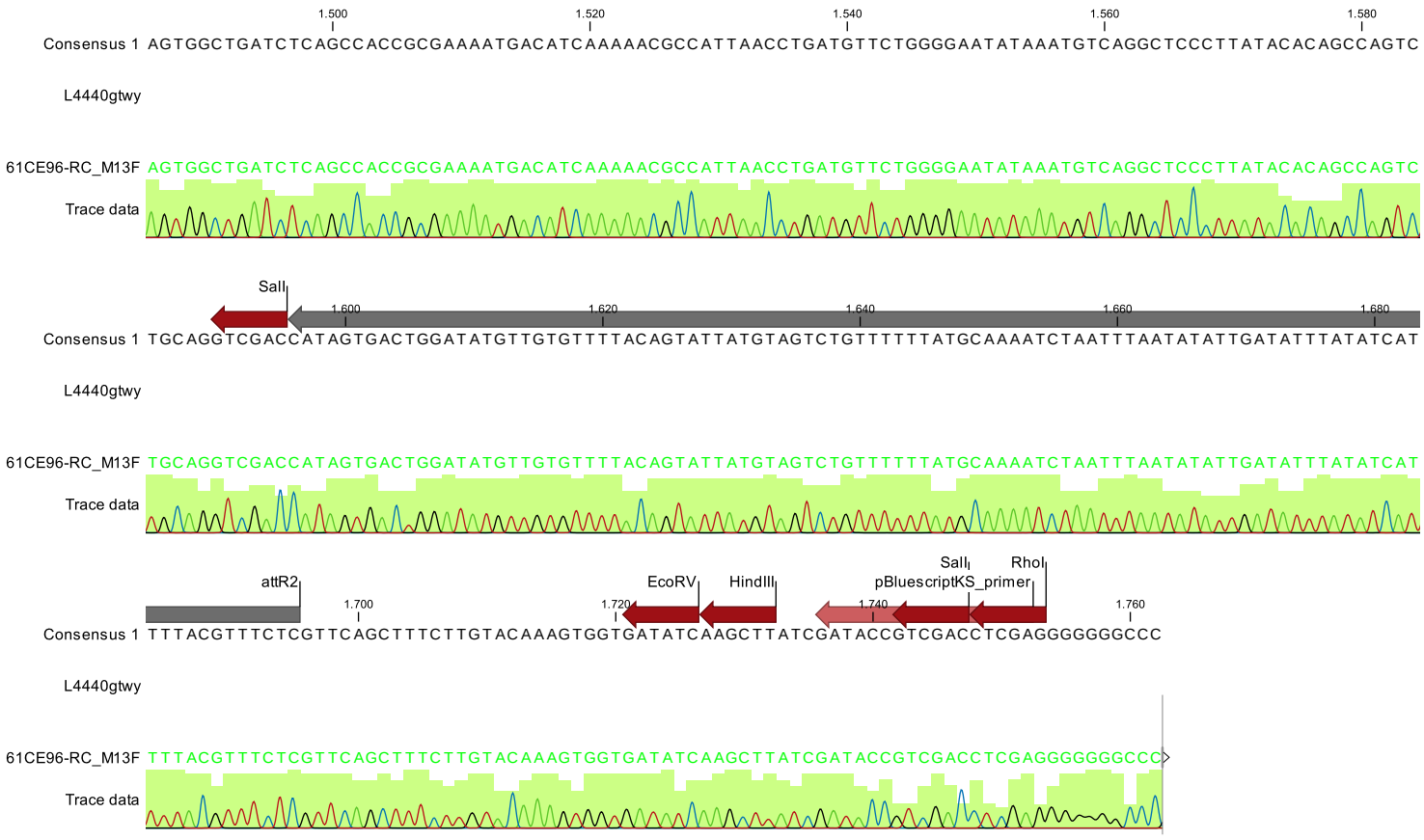
Consensus 1 CTCCCGTGAACTTTACCCGGTGGTGCATATCGGGGATGAAAGCTGGCGCATGATGACCACCGATATGGCCAGTGTGCCGGTCTCCGTTATCGGGGAAGA

L4440gtwy

61CE96-RC_M13F CTCCCGTGAACTTTACCCGGTGGTGCATATCGGGGATGAAAGCTGGCGCATGATGACCACCGATATGGCCAGTGTGCCGGTCTCCGTTATCGGGGAAGA

Trace data




1.500
1.520
1.540
1.560
1.580
Consensus 1 AGTGGCTGATCTCAGCCACCGCGAAAATGACATCAAAAACGCCATTAACCTGATGTTCTGGGGAATATAAATGTCAGGCTCCCTTATACACAGCCAGTC
L4440gtwy
61CE96-RC_M13F AGTGGCTGATCTCAGCCACCGCGAAAATGACATCAAAAACGCCATTAACCTGATGTTCTGGGGAATATAAATGTCAGGCTCCCTTATACACAGCCAGTC
Trace data
SalI
1.600
1.620
1.640
1.660
1.680
Consensus 1 TGCAGGTCGACCATAGTGACTGGATATGTTGTGTTTTACAGTATTATGTAGTCTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTTATATCAT
L4440gtwy
61CE96-RC_M13F TGCAGGTCGACCATAGTGACTGGATATGTTGTGTTTTACAGTATTATGTAGTCTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTTATATCAT
Trace data
attR2
EcoRV
HindIII
SalI
RhoI
pBluescriptKS_primer
1.700
1.720
1.740
1.760
Consensus 1 TTTACGTTTCTCGTTCAGCTTTCTTGTACAAAGTGGTGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCC
L4440gtwy
61CE96-RC_M13F TTTACGTTTCTCGTTCAGCTTTCTTGTACAAAGTGGTGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCC
Trace data