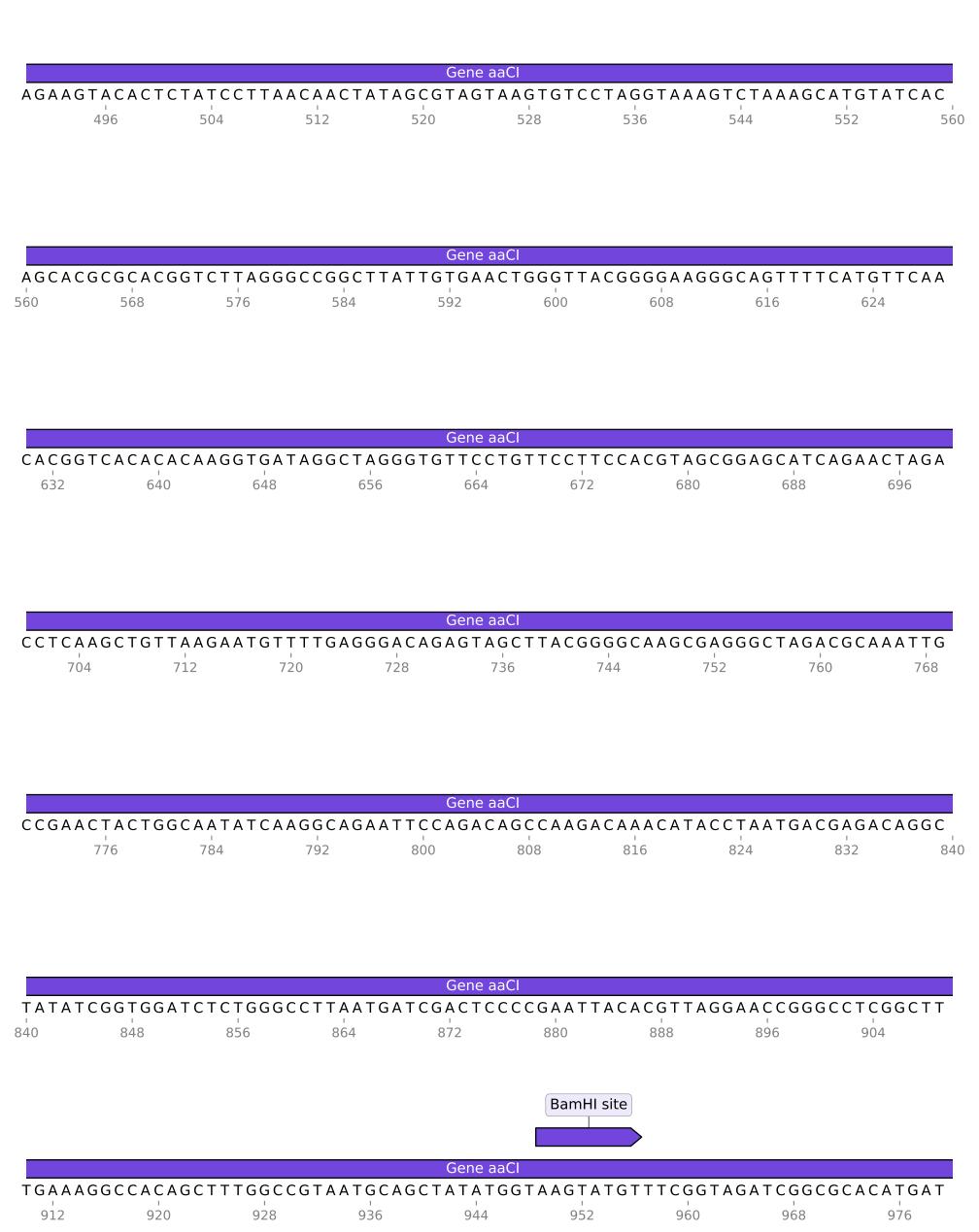
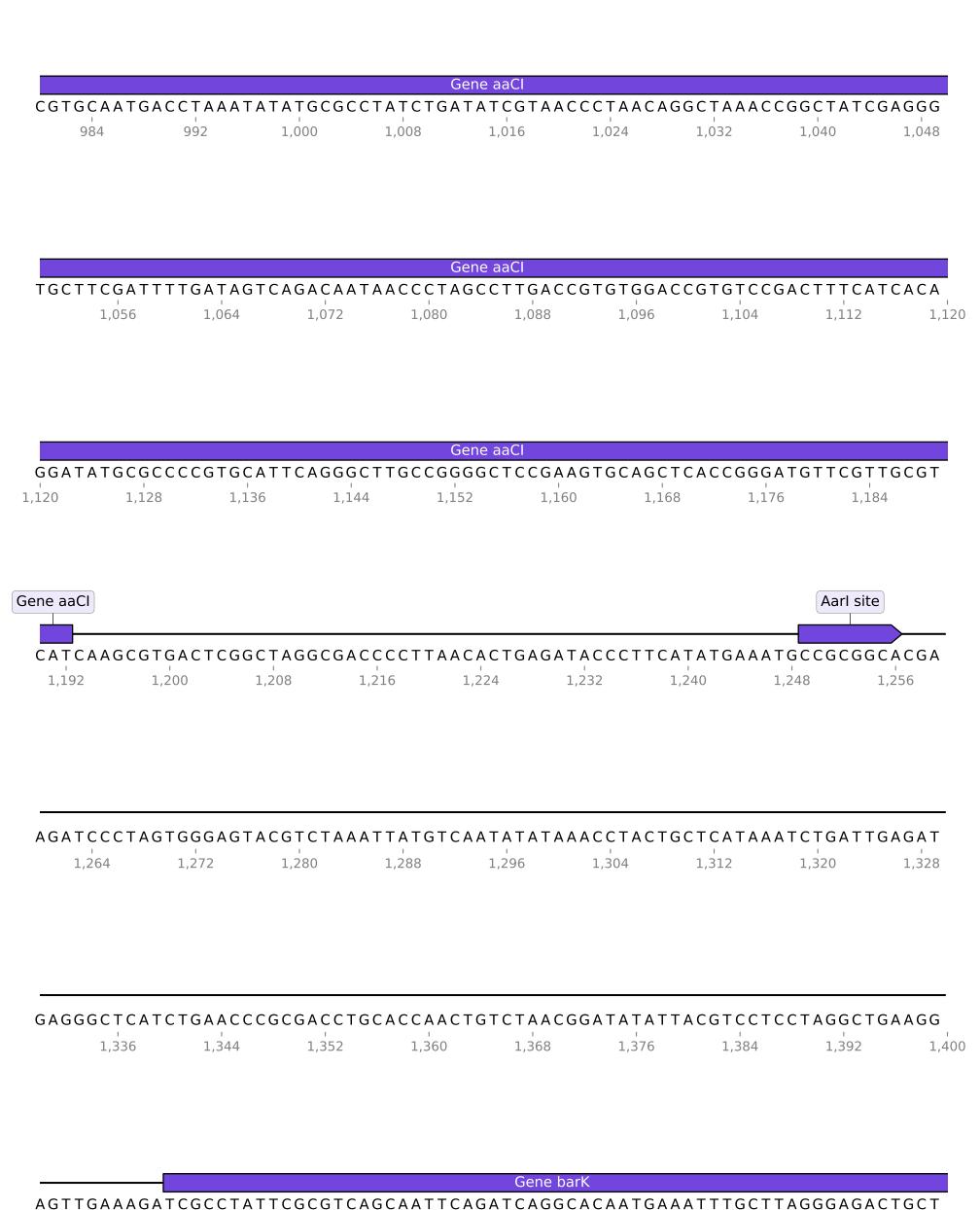


424 432 440 448 456 464 472 480 488





1,400 1,408 1,416 1,424 1,432 1,440 1,448 1,456 1,464

Gene barK ACCCCGTCCGAACTGTGGACCAGGAGGGGCCATATGTCACTCGCGGTAGCAAGTGTGCTTATACTTCGTT 1.472 1.480 1,488 1.496 1,504 1,512 1.520 1,528 1,536 Gene barK TACAGTCCTCATGCGAAAGCTACGATCGCCAACCCTGTAAAAAGATTATCTTCAGGAGACTCTATCACGT 1.544 1.552 1.576 1.584 1.592 1.560 1.568 1.600 1.608

Gene barK

TGTCATCCAAATGGGGAATGGACCGTGCTTCATCAATTGGAGTCGACGGTCGGGGAAAGCTACTTGC

1,616
1,624
1,632
1,640
1,648
1,656
1,664
1,672
1,672

Gene barK

ATCGACCGCTTCTTGCGGATCCGGGTCTTTATTACATGAGTAGCAGCCAATAGTCATGGGATGGTGTTT

1,680 1,688 1,696 1,704 1,712 1,720 1,728 1,736 1,744

Gene barK promoter

CCTGGTCCTTGGACGTGCCTTTAAATGCTGTACAACGAAATTCTGCTAGCATGTAGAGGACCGACGGGA

1,752 1,760 1,768 1,776 1,784 1,792 1,800 1,808 1,816

promoter

Gene kanR

AACCCTGGACATAGGGAATCCCGTCGTTCGGACTAGCTATTAAAGCAGACCCACCTCGTTACGTCCACGG

1.824
1.832
1.840
1.848
1.856
1.864
1.872
1.880
1.888

Gene kanR
CACGAGGAATGATCTCGAGTTGCTTGCTCGTGCCAAATACGAGGCCGGCTCAGCAACCTGGTTTAAAGT

1,896 1,904 1,912 1,920 1,928 1,936 1,944 1,952 1,960

Gene kanR
TCGTCTTGAATTATGCCTTTATGGAAACCAAACTAAGAGTCTGTAATAGACATCAATCGACCACGGAGGA

2.064

2.072

2.080

2.088

2.096

2.032

2.040

2.048

2.056

2,104 2,112 2,120 2,128 2,136 2,144 2,152 2,160 2,168

Gene kanR

GGCCGTCGTAGTGGCCGGGCTTTATTACCCGGAAAGGGTACCTTATCGAGTCATGAGGTATGGAGAAATA

2,176 2,184 2,192 2,200 2,208 2,216 2,224 2,232 2,240

Gene kanR

GGTCTCAAATGGCCTAAAAGCAGAACATCATGTGATTCACTTCATTTATAAGGAATTGCCGAACACCGCC
2,240 2,248 2,256 2,264 2,272 2,280 2,288 2,296 2,304

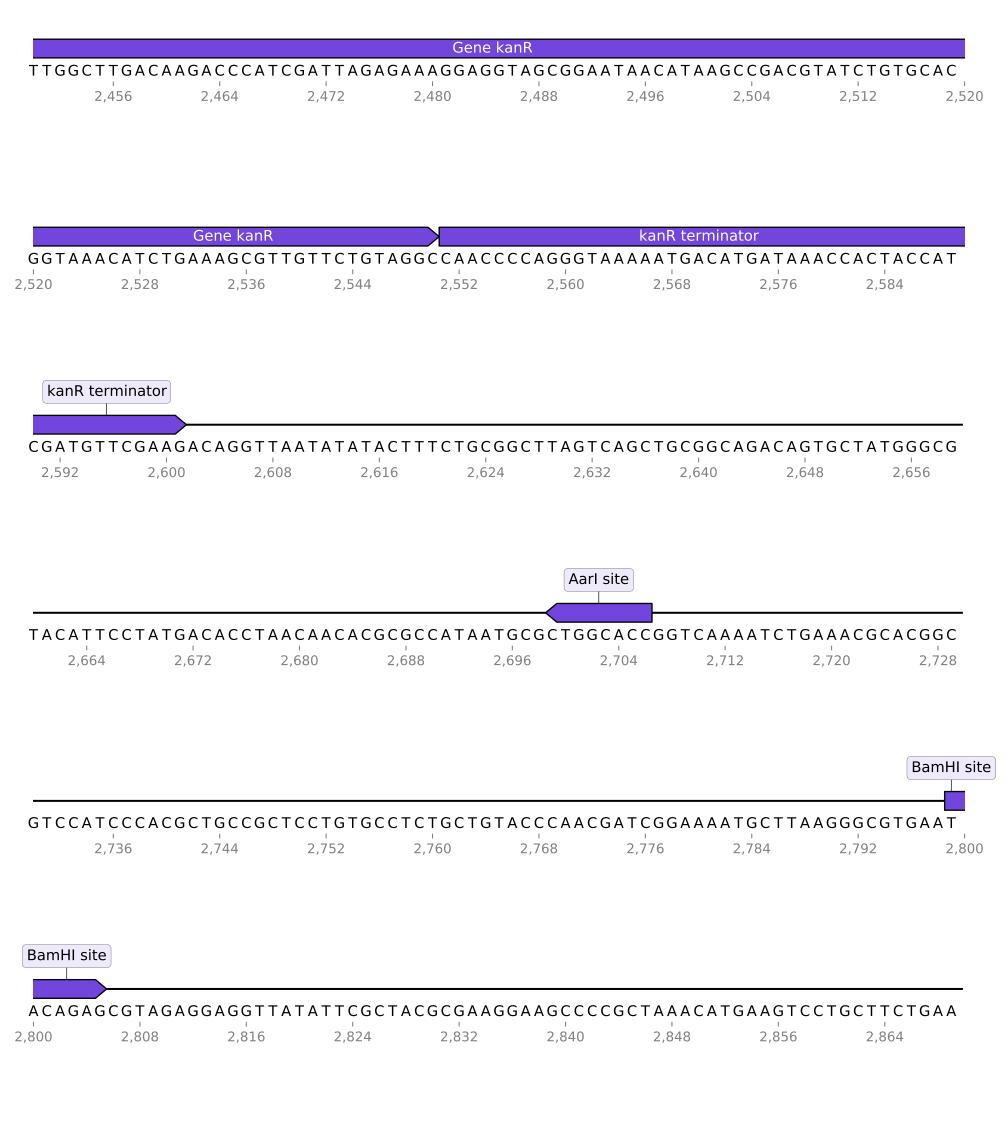
Gene kanR

TAAGCTAGCTATGCTGAATGCGACTCACCATAACACGCTGTCTATTTGATGATGCGTCGTGTGACTCGGG
2,312 2,320 2,328 2,336 2,344 2,352 2,360 2,368 2,376

Gene kanR

CCGCGCGCACCAAAGGACGACAAATTCGACAATCCTGTTGATCGCCGGGGCGCAATACATGTTGACGAA

2,384 2,392 2,400 2,408 2,416 2,424 2,432 2,440 2,448



ACGTCGTAGTAGTCCGCGCAGGTACTCTCATTCATCCTGGGAAAAGGAGGGGATCTTTTGCGGATTAAGT
2,872 2,880 2,888 2,896 2,904 2,912 2,920 2,928 2,936

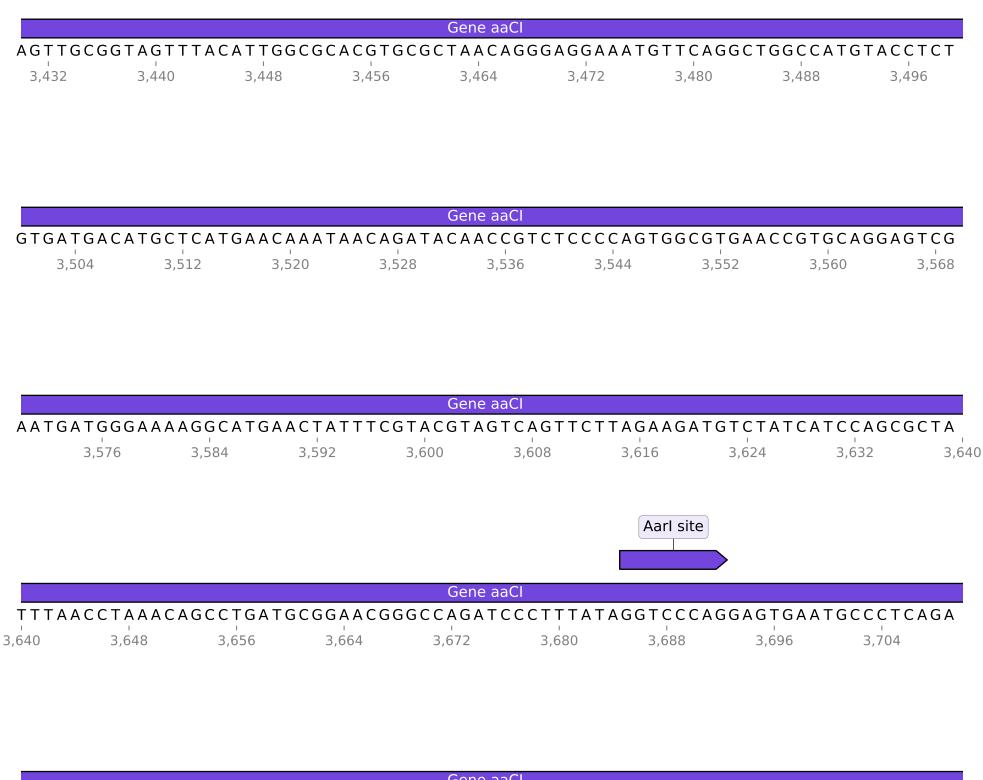
CATAACCCGCTACAAGTCGTTCGGCCAGTTCCTGTAGTCGGAAGCGCAAACTCCTCCTATTTAGCCTTGC 2,992 2,968 2,976 2,984 2,944 2,952 2,960 3.000 3,008 CATGTGTTCTAGTGACGCAGGCCCGCTGCAGAATGTACCATAACTTATTGTGGATCTACTGCCCCTCTGT 3.024 3.032 3.040 3.048 3.056 3.064 3.072 3.016 3.080 ATTGCCTACGGACCGGCCCGCGAGACCTGCATTGTCATCGTCAGTTTATAGGAGGATCATCGCATCCGTC 3.088 3.096 3.104 3.112 3.120 3.128 3.136 3.144 Gene aaCl TGCCCTGCCGCTGCAATCCACGCGTGCTTCAAACGACCAGTTTGCATCATGGTGTGAGACGCTAGCCTTA 3,208 3,176 3,184 3,192 3,200 3.152 3.160 3.168

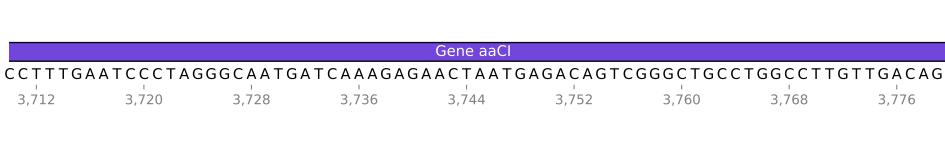
Gene aaCl TCCCCTATTAGTTAGGAGAACGGAACGGGGGGGGGCGTGACAAGCAGGAGGTGGTGAGCTCCGAAACCCGC 3,240 3,248 3,256 3,264 3,272 3,224 3,232 3,280 3,288

Gene aaCl GCTACTTTTAGACGGAATTAACGGCCGAACGCTATTAACTTCTCGGTCCCACGATGAATTTCTGAGGGGA

3,304 3,312 3,320 3,328 3,336 3,344 3,352 3.296

Gene aaCl CACCCGATGTCGGAAAGGTACGGTTGAAGAATGAACCATTGTGCTGTAAATGCAGAACGCTCCCGCCCCG 3,360 3,368 3,376 3,384 3,392 3,400 3,408 3,416 3,424



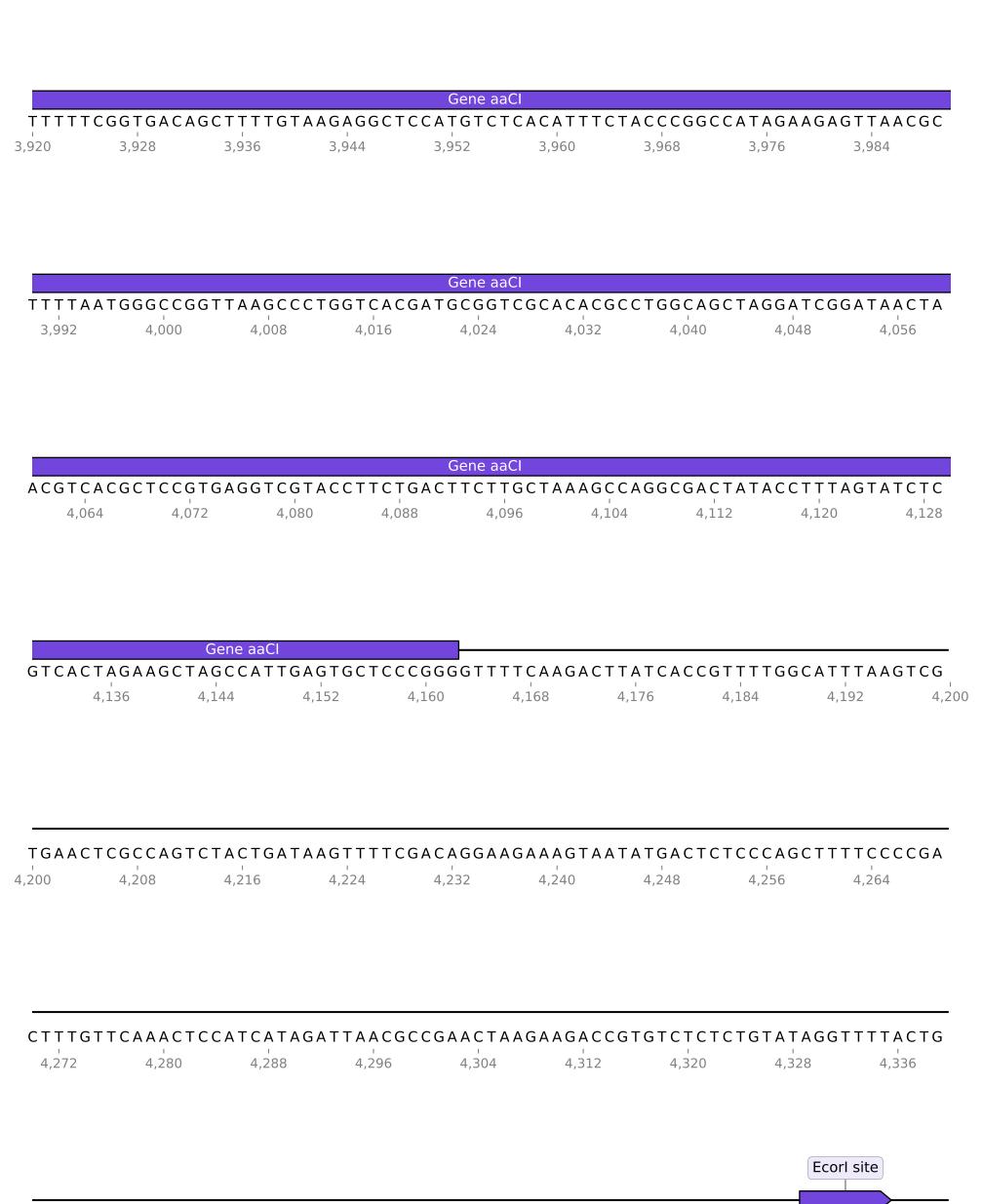


Gene aaCl								
GATAGCTGTGAATATGCGTAGGCATCCAAGCAAGTGGGAGCAATCATACTGTTTCCCTACATCCGGGACT								
I	I	I	I	I	I	I	I	I
3,784	3,792	3,800	3,808	3,816	3,824	3,832	3,840	3,848

Gene aaCl

CCGAGCGACGATGAGCGGGCATTACGCGCATGGTTGATCGAAACGTGGGGTTTCTGTAGTCTGAAACGCT

3,856 3,864 3,872 3,880 3,888 3,896 3,904 3,912 3,920



 TTTCACCATGTCGACTCCTCTCACGTCGCTCGAACACTACTGCGCAAAAAGTCGCTGAGTCAAATCGCGT

4,416

4.424

4.432

4.440

4.448

4.456

4.464

4.472

4,480

ACTGTACTCCTCTATAGTTTTGGCGGAAGTACTGAGATCTTTAACATGGGAATTCGCTCGATATCTGTGC

4,480

4,488

4,496

4,504

4,512

4,520

4,528

4,536

4,544

CGGCTTGTTGTTGACCATAAAGACTGGAGGTACACAGTAGAGAGTTGAGCTTCATTCTAGACCATGTCTT

4.552

4.560

4,568

4.576

4.584

4.592

4.600

4.608

4.616

CCTCGCATTAGCCATCACCCGACTCGTCTCAATACGCAGTCCGTCTGCTGCGAGGATCACGGACATGCCG

4.624

4.632

4.640

4.648

4.656

4.664

4.672

4.680

4.688

CACGTGACATAGCGAAATCCCTTCAACTTA

4,696

4,704

4,712

4,720