GFP_Biosensor_Insert (921 bp)

BseRI
KpnI
RsaI
CviQI
AvrII MnlI Acc65I TfiI

TTTACGGCTAGCTCAGTCCTAGGTATAGTGCTAGCCATTAAAGAGGAGAAAGGTACCATGAGCAAAGGCGAAGAACTGTTTACCGGCGTGGTGCCGATTCTGGTGGA
AAATGCCGATCGAGTCAGGATCCATATCACGATCGGTAATTTCTCCTCTTTCCATGGTACTCGTTTCCGCTTCTTGACAAATGGCCGCACCACGGCTAAGACCACCT

Promoter_J23106 RBS_B0034 GFP_CDS_optimized

10 20 30 40 50 60 70 80 90 100

BsrBI
BcgI

ACTGGATGGCGATGTGAACGGCCATAAATTTAGCGTGAGCGGCGAAGGCGAAGGCGATGCGACCTATGGCAAACTGACCCTGAAATTTATTTGCACCACCGGCAAAC
TGACCTACCGCTACACTTGCCGGTATTTAAATCGCACTCGCCGCTTCCGCTTCCGCTACGCTGGATACCGTTTGACTGGGACTTTAAATAAACGTGGTGGCCGTTTG

GFP_CDS_optimized

110 120 130 140 150 160 170 180 190 200 210

Hpy188III
BtsαI BspEI
BstEII BtsI BsaWI

TGCCGGTGCCGTGGCCGACCCTGGTGACCACCTTTAGCTATGGCGTGCAGTGCTTTAGCCGCTATCCGGATCATATGAAACAGCATGATTTTTTTAAAAGCGCGATG
ACGGCCACGGCACCGGCTGGGACCACTGGTGGAAATCGATACCGCACGTCACGAAATCGGCGATAGGCCTAGTATACTTTGTCGTACTAAAAAAATTTTCGCGCTAC

GFP_CDS_optimized

220 230 240 250 260 270 280 290 300 310 320

CCGGAAGGCTATGTGCAGGAACGCACCATTTTTTTTAAAGATGATGGCAACTATAAAACCCGCGCGGAAGTGAAATTTGAAGGCGATACCCTGGTGAACCGCATTGA
GGCCTTCCGATACACGTCCTTGCGTGGTAAAAAAAATTTCTACTACCGTTGATATTTTGGGCGCGCCTTCACTTTAAACTTCCGCTATGGGACCACTTGGCGTAACT

GFP_CDS_optimized

330 340 350 360 370 380 390 400 410 420

HpyCH4IV
BaeI AflIII

ACTGAAAGGCATTGATTTTAAAGAAGATGGCAACATTCTGGGCCATAAACTGGAATAACTATAACAGCCATAACGTGTATATTATGGCGGATAAACAGAAAAACGGC
TGACTTTCCGTAACTAAAATTTCTTCTACCGTTGTAAGACCCGGTATTTGACCTTATTGATATTGTCGGTATTGCACATATAATACCGCCTATTTGTCTTTTTGCCG

GFP_CDS_optimized

430 440 450 460 470 480 490 500 510 520 530

MslI PvuII BsaBI NciI

ATTAAAGTGAACTTTAAAATTCGCCATAACATTGAAGATGGCAGCGTGCAGCTGGCGGATCATTATCAGCAGAACACCCCGATTGGCGATGGCCCGGTGCTGCTGCC
TAATTTCACTTGAAATTTTAAGCGGTATTGTAACTTCTACCGTCGCACGTCGACCGCCTAGTAATAGTCGTCTTGTGGGGCTAACCGCTACCGGGCCACGACGACGG

GFP_CDS_optimized

540 550 560 570 580 590 600 610 620 630 640

BssHII
Bsp1286I
BsiHKAI BlpI BstYI SacII NcoI

GGATAACCATTATCTGAGCACCCAGAGCGCGCTGAGCAAAGATCCGAACGAAAACGCGATCATATGGTGCTGCTGGAATTTGTGACCGCGGCGGGCATTACCCATGG
CCTATTGGTAATAGACTCGTGGGTCTCGCGCGACTCGTTTCTAGGCTTGCTTTTGCGCTAGTATACCACGACGACCTTAAACACTGGCGCCGCCCGTAATGGGTACC

GFP_CDS_optimized

650 660 670 680 690 700 710 720 730 740

TaqαI
TaqI BmrI

CATGGATGAACTGTATAAACATCACCATCACCATCATCACTAACCAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTGTTGTTT
GTACCTACTTGACATATTTGTAGTGGTAGTGGTAGTAGTGATTGGTCCGTAGTTTATTTTGCTTTCCGAGTCAGCTTTCTGACCCGGAAAGCAAAATAGACAACAAA

GFP_CDS_optimized His_Tag_7x

750 760 770 780 790 800 810 820 830 840 850

MlyI
PleI

GTCGGTGAACGCTCTCTACTAGAGTCACACTGGCTCACCTTCGGGTGGGCCTTTCTGCGTTTATA
CAGCCACTTGCGAGAGATGATCTCAGTGTGACCGAGTGGAAGCCCACCCGGAAAGACGCAAATAT

860 870 880 890 900 910 920