

pYL887 (7244 bp)

gacgaaaggcctcgtgatacgcctatTTTTATAGGTTAATGTCATGATAAATGGTTTCTTAGGACGGATCGTTGCTGTAACCTACACGCGCCTCGTATCTTCTGCTTCCCGGAGCACTATGCGGATAAAAATATCCAATTACAGTACTATTATTACCAAAGAATCCTGCCTAGCGAACGGACATTGAATGTGCGCGGAGCATAGAAA



20 40 60 80 100

TAATGATGGAATAATTGGGAATTTACTCTGTGTTATTTATTTTTATGTTTTGATTTGGATTTAGAAAGTAAATAAGAAGGTAGAAGAGTTACGGAATGAAGAATTACTACCTATTA AACCTTAAATGAGACACAATAATAAAAAACAAAACATAAACCTAAAATCTTTCATTTATTTCTTCCATCTTCTCAATGCCTTACTTCT



120 140 160 180 200

AAAAAATAACAAAGGTTTAAAAATTTCAACAAAAGCGTACTTTACATATATTTATTAGACAAGAAAAGCAGATTAATAGATATACATTCGATTAACGATTTTTTTTATTTGTTTCCAAATTTTTAAAGTTGTTTTCGCATGAAATGTATATATAAATAATCTGTTCTTTTCGTCTAATTTATCTATATGTAAGCTAATTGCTA



220 240 260 280 300 320

AAGTAAATGTA AATCACAGGATTTTCGTGTGTGGTCTTCTACACAGACAAGATGAACAATTCGGCATTAACTGAGAGCAGGAAGAGCAAGATAAAAGGTAGTTTCAATTTACATTTAGTGTCTAAAAGCACACACCAGAAGATGTGTCTGTTCTACTTTGTTAAGCCGTAATTATGGACTCTCGTCTTCTCGTTCTATTTCCATC



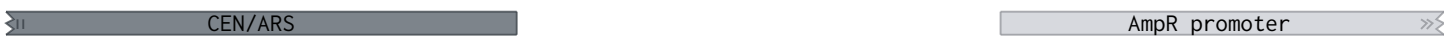
340 360 380 400 420

TATTTGTTGGCGATCCCCCTAGAGTCTTTTACATCTTCGGAAAACAAAACACTATTTTTCTTAAATTTCTTTTTTACTTTCTATTTTAAATTTATATATTTATATAAACAACCCTAGGGGATCTCAGAAAATGTAGAAGCCTTTGTTTTGATAAAAAAGAAATTAAGAAAAAATGAAGATAAAAAATTAATATATAAATATAA



440 460 480 500 520

AAAAATTTAAATTAATTTATTTTTATAGCACGTGATGAAAAGGACCCAGGTGGCACTTTTCGGGGAATGTGCGCGGAACCCCTATTTGTTTATTTTCTAAATATTTTTAAATTAATATAAATAAATATCGTGCACTACTTTTCTGGGTCCACCGTGAAAAGCCCTTTACACGCGCCTTGGGGATAACAATAAAAGATTTAT



540 560 580 600 620 640

CATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATCCGTAAGTTTATACATAGGCGAGTACTCTGTATTGGGACTATTTACGAAGTTATTATACTTTTTCTTCTCATACTCATAAGTTGTAAGGCACAGCGGGAATAAGG



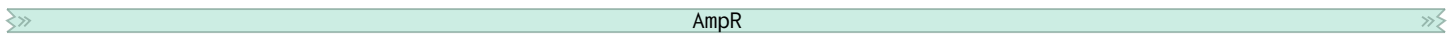
660 680 700 720 740

CTTTTTGCGGCATTTTGCCTTCTGTTTTGCTCACCCAGAAACGCTGGTGAAGTAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTACATCGAAGTGGGAAAAACGCGTAAAACGGAAGGACAAAACGAGTGGGTCTTTGCGACCCTTTCATTTCTACGACTTCTAGTCAACCCACGTGCTCACCAATGTAGCTTGACC



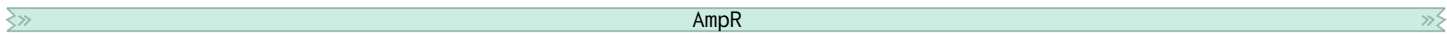
760 780 800 820 840

atctcaacagcggtaagatccttgagagttttgccccgaagaacgttttccaatgatgagcacttttaaagtctgctatgtggcgcggattatcccgtattgac
tagagttgtcgccattcttaggaactctcaaaagcggggcttcttgcaaaaggttactactcgtgaaaatttcaagacgatacaccgcgccataatagggcataactg



860 880 900 920 940 960

gccgggcaagagcaactcggtcgccgcatatactattctcagaatgacttggttgagtactcaccagtcacagaaaagcatcttacggatggcatgacagtaagaga
cggcccgttctcgttgagccagcggcgtatgtgataagagtcttactgaaccaactcatgagtggtcagtgcttttctgtagaatgcttacgtactgtcattctct



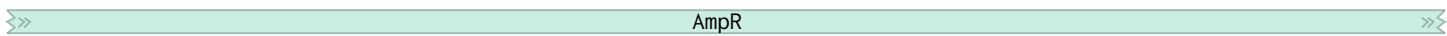
980 1,000 1,020 1,040 1,060

attatgcaagtgtgccataaccatgagtgataaactgcgccaacttacttctgacaacgatcggaggaccgaaggagctaaccgctttttgcaacaatggggg
taatacgtcacgacggtattggtactcactattgtgacgccggttgaatgaagactgttgctagcctcctggcttctcgtattggcgaaaaaacgtgtgtaccccc



1,080 1,100 1,120 1,140 1,160

atcatgtaactcgccttgatcgttgggaaccggagctgaatgaagccataccaacgacgagcgtgacaccagatgctctgtagcaatggcaacaacgttgcgcaaa
tagtacattgagcggaaactagcaacccttggcctcgacttacttccggtatggttctgctcgcactgtggtgctacggacatcgttacggttgttgaacgcgttt



1,180 1,200 1,220 1,240 1,260 1,280

ctattaactggcgaactacttactctagcttcccggcaacaattaatagactggatggaggcggataaagttgcaggaccacttctgctcggcccttccggctgg
gataattgaccgcttgatgaatgagatcgaagggccgttgttaattatctgacctacctccgctatttcaacgtcctgggaagacgagccgggaaggccgacc



1,300 1,320 1,340 1,360 1,380

ctggtttatgtgataaatctggagccggtgagcgtgggtctcgcggtatcatgacgactggggccagatggtaagccctcccgtatcgtagtatctacacga
gacaaataacgactatttagacctcggccactcgcacccagagcgccatagtaaacgtcgtgaccccggtctaccattcgggagggcatagcatcaatagatgtgct



1,400 1,420 1,440 1,460 1,480

cggggagtcaaggcaactatggatgaacgaaatagacagatcgtgagataggtgcctcactgattaagcattggttaactgtcagaccaagttactcatatatactt
gccctcagtcggtgatacctacttgccttatctgtctagcagcttatccacggagtgactaatcgttaaccattgacagctcgttcaaatgagtatataatgaa

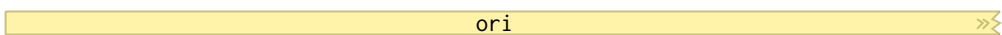


1,500 1,520 1,540 1,560 1,580 1,600

tagattgatttaaaacttcatttttaatttaaaaggatctaggatgaagatccttttgataatctcatgacaaaatcccttaacgtgagtttctgttccactgagc
atctaactaaatgtgaagtaaaaattaaatctctagatccacttctaggaaaaactatagagtactggttttaggaattgcaactcaaaagcaaggtgactcg

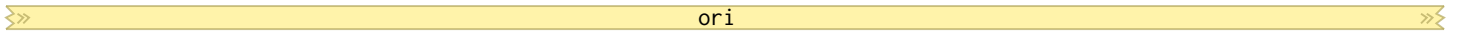
1,620 1,640 1,660 1,680 1,700

gtcagaccccgtagaaaagatcaaaggatccttcttgagatccttttttctgctgtaactctgctgcttgcacaaaaaaaaccaccgctaccagcgggtggtttgtt
cagctcggggcatcttttctagtttctagaagaactctaggaaaaaagacgcgcattagacgacgaacggttgttttttgggtggcgatggtcgccaccaaacaa



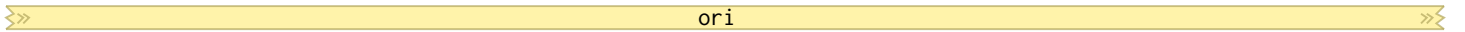
1,720 1,740 1,760 1,780 1,800

tgccgatcaagagctaccaactcttttccgaaggtaactggcttcagcagagcgcagataccaatactgtccttctagtgtagccgtagttagccaccacttc
acggcctagtctcgcgatgggtgagaaaaaggcttccattgaccgaagtcgtctcgcgtctatggttatgacaggaagatcacatcggcatcaatccgggtggtgaag



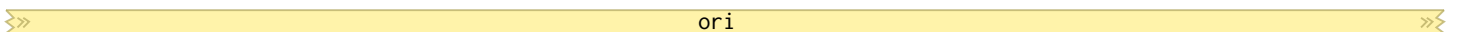
1,820 1,840 1,860 1,880 1,900 1,920

aagaactctgtagcaccgcctacatacctcgctctgctaactcctgttaccagtggtgctgcccagtgccgataagtcgtgtcttaccgggttgactcaagacgata
ttcttgagacatcgtggcggatgtatggagcgcagacgattaggacaatggtcaccgacgacgggtcaccgctattcagcacagaatggcccaacctgagttctgctat



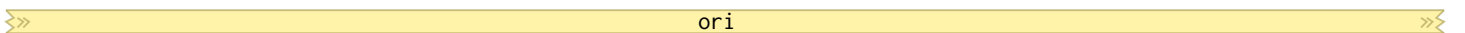
1,940 1,960 1,980 2,000 2,020

gttaccggataaggcgcagcggctcgggctgaacggggggtcgtgcacacagcccagcttggagcgaacgacctacaccgaactgagatacctacagcgtgagctat
caatggcctattccgcgtgccagcccgacttgcaccccaagcagctgtgtcgggtcgaacctcgtctgctggatgtggcttgactctatggatgtcgcactcgata



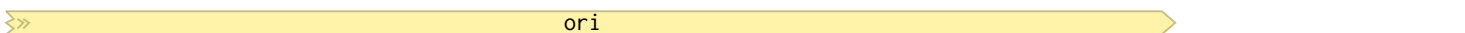
2,040 2,060 2,080 2,100 2,120 2,140

gagaaagcggccagcttccgaaggagaaaggcggacaggtatccgtaagcggcagggtcggaaacaggagagcgcacgaggagcttccaggggaaacgcctgg
ctcttccgcgtgcaagggttccctcttccgcctgtccataggccattcgcctccagccttgcctctcgcgtgctccctcgaaggcccccttgcggacc



2,160 2,180 2,200 2,220 2,240

tatctttatagtcctgtcgggttccgccctctgacttgagcgtcgatttttgtgatgctcgtcagggggcggagcctatggaaaaacccagcaacgcggcctt
atagaatatcaggacacccaaagcgggtggagactgaactcgcagctaaaaactacgagcagctccccgcctcggatacctttttgcggctgttgcgccgaa



2,260 2,280 2,300 2,320 2,340

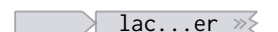
tttacggttcctggccttttgcctgcttttgcctcacatgttcttctcgttatcccctgattctgtggataaccgtattaccgcctttgagtgagctgataccg
aatgccaaggaccggaaaaacgaccggaaaaacgagtggtacaagaaaggacgcaataggggactaagacacctattggcataatggcggaaactcactcgcactatggc

2,360 2,380 2,400 2,420 2,440 2,460

ctcggcagccgaacgaccgagcgcagcagtgagtgagcaggaagcggaaagagcggccaatacgaacccgccttccccgcgcttggccgattcattaatgc
gagcggcgtcggcttgcctggctcgcgtcgtcactcactccttgccttctcgcgggttatgctttggcggagaggggcgcaaccggctaagtaattacg

2,480 2,500 2,520 2,540 2,560

agctggcagcagcaggttcccactggaagcggcagtgagcgaacgcaattaatgtgagttacctcactcattaggcaccaccagccttacactttatgcttcc
tcgaccgtgctgtccaagggtgaccttccgccgtcactcgcgttgcgttaattactcaatggagtgagtaatccgtggggtccgaaatgtgaatacgaagg



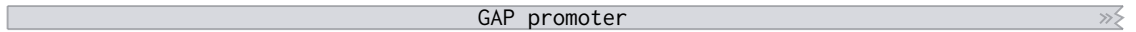
2,580 2,600 2,620 2,640 2,660

ggctcctatgttgtgtggaattgtgagcggataacaattcacacaggaaacagctatgacctgattacgccaagcgcgcaattaaccctcactaaagggaacaaa
ccgagataacaacacacttaacactcgcctattgttaaagtgtgtcctttgtcgatactggactaatgcgggttcgcgcttaattgggagtgatttcccttgttt



2,680 2,700 2,720 2,740 2,760 2,780

agctggagctcccggcccatcatcattatcaatactcgccatttcaagaatagcgaataataatagtagtgattttcctaactttatttagtcaaaaaatta
tcgacctcgaggcgccggtagtagtaatagttatgagcggtaaagtttcttatgcatttattaattatcatcactaaaggattgaaataaatcagtttttaatt



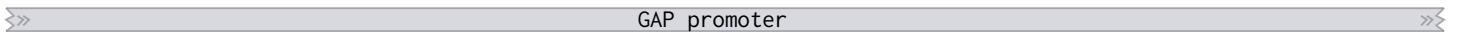
2,800 2,820 2,840 2,860 2,880

gccttttaattctgctgtaaccgtacatgcccaaatagggggcgggttacacagaatataacaccgaaggcctgggtgaacaggttattcctggcatcca
cggaaaattaagacgacattgggcatgtacgggtttatccccgcccaatgtgtcttatatattgtggctccacggaccacttgtccaataaggaccgtaggt



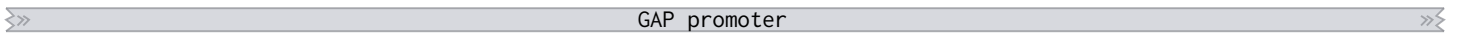
2,900 2,920 2,940 2,960 2,980

ctaatataatggagcccgtttttaagctggcatccagaaaaaaaaagaatccagcaccaaaatattgttttcttccaacacatcagttcataggtccattctc
gatttatattacctcgggcgaaaaattcgaccgtaggtctttttttcttagggctgtggtttatacaaaaagaagtggttggttagtcaagtatccaggtaagag



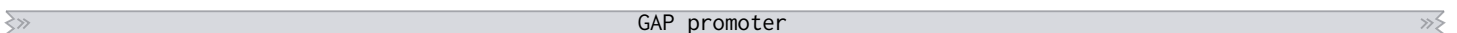
3,000 3,020 3,040 3,060 3,080 3,100

ttagcgcaactacagagaacaggggcacaacagggcacaacctcaatggagtgatgcaacctgcctggagtaaatgatgacacaaggcaattgacc
aatcgcgttgatgtctcttgctcccgtgtttgtccgtttttgcccgtgttgagttacctcactacgttgacggaccttactactgtgttcggttaactgg



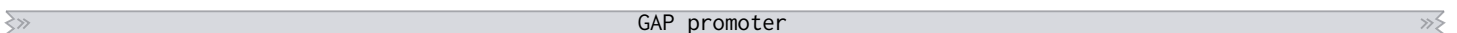
3,120 3,140 3,160 3,180 3,200

cacgatgtatctatctcattttcttacaccttctattaccttctgctctctctgatttgaaaaagctgaaaaaaagggtgaaccagttccctgaaattatcc
gtgctacatagatagagtaaaagaatgtggaagataatggaagacgagagagactaaaccttttgcacttttttccaacttgggtcaagggactttaataagg



3,220 3,240 3,260 3,280 3,300

cctacttgactaataagtatataaagacggtaggtattgattgtaattctgtaaatctatttcttaaacttctaaattctacttttatagttagcttttttttag
ggatgaactgattattcatatatttctgcatccataactaacattaagacatttagataaagaattgagaatattaagatgaaaatatcaatcagaaaaaaaaatc



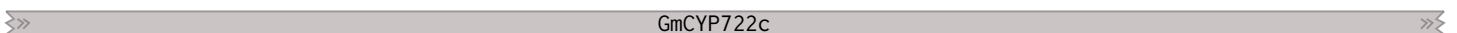
3,320 3,340 3,360 3,380 3,400 3,420

ttttaaaccaccagaacttagtttcgacggattctagaactagtgatcccccatACAAGTTTGTACAAAAAGCAGGCTtcTATACAATGCTGAACTTGTGAGA
aaaattttgtggtcttgaatcaaagctgcctaagatcttgatcacctaggggtagGTTCAAACATGTTTTTCGTCGAagATATGTTACGACTTGAACAACCTCT



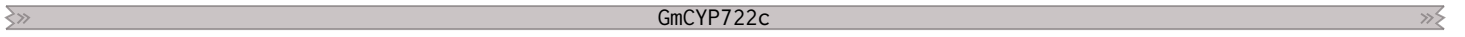
3,440 3,460 3,480 3,500 3,520

GAAGAAGTTTTGTTGGTCGTCAGAACTACTACTACGATTTGATTATGTTGCCTTGTTCACCATTGGTGTACTTACTTGGCTTCTAAAGCTTGGAAAAGAGCTAC
CTTCTTCAAAAACACCAGCAGGTTCTCATGATGCTAACTAATACCAACGGAACAAGTGGTAACCAATGAATGAACCGAAGATTTTGAACCTTTTCTCGATG



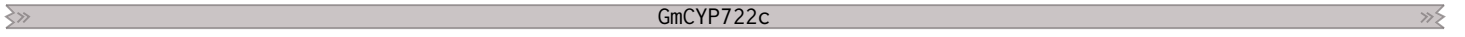
3,540 3,560 3,580 3,600 3,620

TACCAACAACAGAGAAGAAATCCCAGGTAGATTGGGTTTGCCTTTTATTGGTGAACCTTCTCTTTCTTGTCTGCTACCAATTCTACTAGAGGTTGCTACGATTTCCG
ATGGTTGTTGTCTCTCTTTAGGGTCCATCTAACCCAAACGAAAAATAACCACTTTGGAAGAGAAAGAACAGACGATGGTTAAGATGATCTCCAACGATGCTAAAGC
T N N R E E I P G R L G L P F I G E T F S F L S A T N S T R G C Y D F



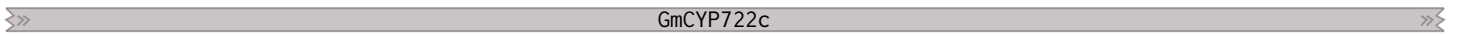
3,640 3,660 3,680 3,700 3,720 3,740

TCAGATTGAGAAGATTGTGGAATGGTAGATGGTTCAAGACTAGGTTGTTCCGGTAAAGATCCATATCTTCATTCCATCTCCAGAAGGTGCTAGAACTATTTTCGTAAT
AGTCTAACTCTTCTAACACCTTACCATCTACCAAGTTCTGATCCAACAAGCCATTCTAGGTATAGAAGTAAGGTAGAGGCTTCCACGATCTTGATAAAAGCGATTA
V R L R R L W N G R W F K T R L F G K I H I F I P S P E G A R T I F A N



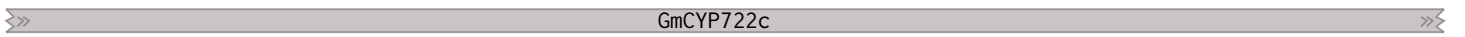
3,760 3,780 3,800 3,820 3,840

GATTCGTCTTGTTCAACAAGGGTTACGTTAAGTCTATGGCTGATGCTGTTGGTCAAAGTCTTTGTTGTGTTCCAGTTGAATCCCACAAGAGAATTAGAGGTTT
CTAAAGCAGAACAAGTTGTTCCCAATGCAATTCAGATACCGACTACGACAACCAAGTTTTCAGAAACAACACACAAGGTCAACTTAGGGTGTCTCTTAATCTCCAAA
D F V L F N K G Y V K S M A D A V G Q K S L L C V P V E S H K R I R G L



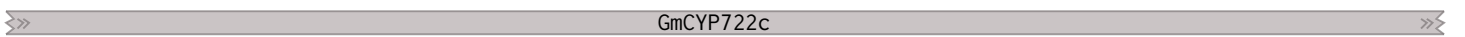
3,860 3,880 3,900 3,920 3,940

GTTGTCTGAACCTTTCTCCATGACTTCTTTGTCTGCTTTTCGTTACCAAGTTCGATAAGATGTTGTGTGGTAGATTGCAGAAGTTGGAAGAATCTGGTAAGTCCTTCA
CAACAGACTTGAAAAGAGGTAAGTGAAGAAACAGACGAAAGCAATGGTTCAAGCTATTCTACAACACACCATCTAACGCTTTCACCTTCTTAGACCATTTCAGGAAGT
L S E P F S M T S L S A F V T K F D K M L C G R L Q K L E E S G K S F



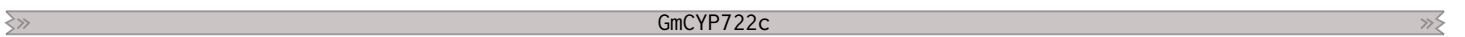
3,960 3,980 4,000 4,020 4,040 4,060

AGGTTTTGGATTTGTGTATGAAGATGACCTTCGATGCTATGTGCGATATGTTGATGTCTATCACCGAAGATTCTTTGTTGAGGCAAATCGAAGAAGATTGCACTGCT
TCCAAAACCTAAACACATACTTCTACTGGAAGCTACGATACAGCTATACTACTACAGATAGTGGCTTCTAAGAAACAACCTCCGTTTACGCTTCTTCTAACGTGACGA
K V L D L C M K M T F D A M C D M L M S I T E D S L L R Q I E E D C T A



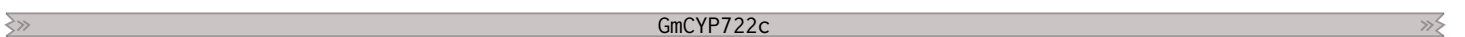
4,080 4,100 4,120 4,140 4,160

GTTTCTGATGCCATGTTGTCTATTCCAATTATGATCCCAAGAACCAGGTAACAAGGTATTACCGCTAGAAAACGTGCATGGAACTTTCCGGTGAATTATTGC
CAAAGACTACGGTACAACAGATAAGGTTAATACTAGGGTCTTGGTCCATGATGTTTCCATAATGGCGATCTTTTGCACAGTACCTTTGAAAGCCACTTTAATAACG
V S D A M L S I P I M I P R T R Y Y K G I T A R K R V M E T F G E I I A



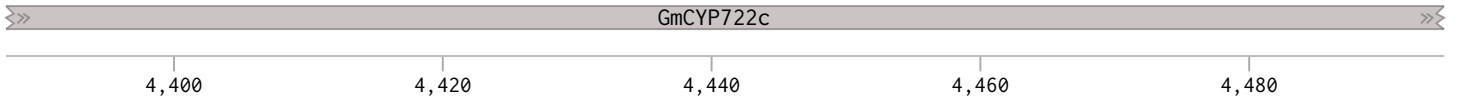
4,180 4,200 4,220 4,240 4,260 4,280

TAGAAGAAGAAGAGGCGAAGAAACCCAGAAGATTTCTGCAATCTATGTTGCAAAGGATTCTTTGCCAGTCTCTGAAAAGTTGGATGACTCCGAAATTATGGACA
ATCTTCTTCTTCCGCTTCTTTGGGCTTCTTAAAGAAGTTAGATACAACGTTTCCCTAAGAAACGGTCAAGACTTTTCAACCTACTGAGGCTTTAATACCTGT
R R R R G E E T P E D F L Q S M L Q R D S L P A S E K L D D S E I M D

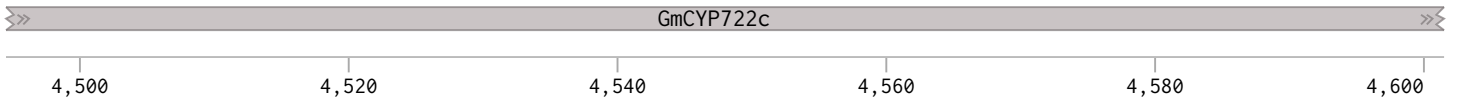


4,300 4,320 4,340 4,360 4,380

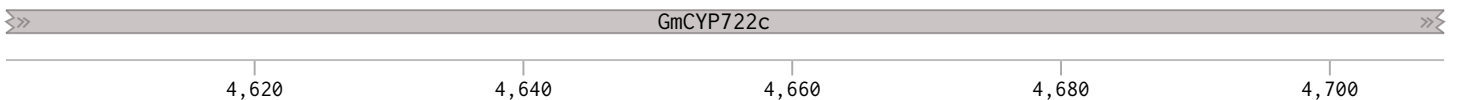
ACCTGTTGACCTTGATTATTGCTGGTCAAACACTACTACAGCTGCTGCTATGATGTGGTCTGTTAAGTCTTGCATGATAACAGAGAAACCCAGGACATTTTGAGGGAA
TGGACAACTGGAACAAATAACGACCAGTTTGATGATGTCGACGACGATACTACACCAGACAATTCAAGAACGTAATTTGTCTCTTTGGGTCTGTAAAACCTCCCTT
N L L T L I I A G Q T T T A A A M M W S V K F L H D N R E T Q D I L R E



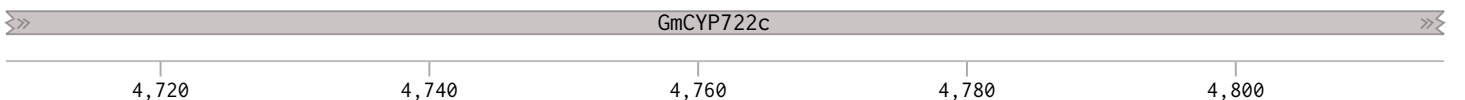
GAACAATTGCCATTACCAAGATGAAGCCTGAAGGTGCTTCTATCAATCATGAGGATTTGAACCTCTATGAGGTACGGTTTGAAGTTGTCAAAGAAACCTTGAGAAT
CTTGTTAACAGGTAATGTTTCTACTTCGACTTCCACGAAGATAGTTAGTACTCCTAACTTGAGATACTCCATGCCAACTTCCAACAGTTTCTTTGGAACCTTTA
E Q L S I T K M K P E G A S I N H E D L N S M R Y G L K V V K E T L R M



GTCCAACGCTTGTGTGGTTTCCAAGAGTTGCTTTGGAGGATTGCACTATTGAAGTTACGATATCAAGAAAGTTGGCACGTTAACATTGATGCTACCCATATTC
CAGGTTGCAGAACACACCAAAGTTTCTCAACGAAACCTCCTAACGTGATAACTTCCAATGCTATAGTTCTTCCAACCGTCAATTGTAACACTACGATGGGTATAAG
S N V L L W F P R V A L E D C T I E G Y D I K K G W H V N I D A T H I



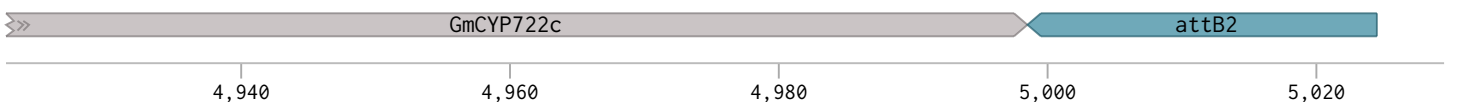
ATCAGACTCCGACTTGACAAAGATCCATTGAAGTTTAAACCCACAGAGGTTGACGAAATGCAAAAGCCATATTCCTTTATTCCATTCGGTTCTGGTCCAAGAACT
TAGTGCTGAGGCTGAACATGTTTCTAGGTAACCTCAAATGGGTGTCTCAAGCTGCTTTACGTTTTCGGTATAAGGAAATAAGGTAAGCCAAGACCAGGTTCTTGA
H H D S D L Y K D P L K F N P Q R F D E M Q K P Y S F I P F G S G P R T



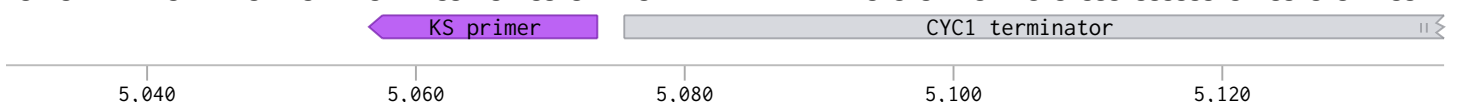
TGCTTGGGTATTAACATGGCTAAGTTACCATGTTGGTTTTCTTGCATAGATTGACTGGTGGTTACACTTGGACTTTGGATGATTTGGATACCTGTTTGAAAAAAA
ACGAACCCATAATTGTACCGATTCCAATGGTACAACCAAAAGAACGTATCTAACTGACCACCAATGTGAACCTGAAACCTACTAAACCTATGGACAAACCTTTTTTT
C L G I N M A K V T M L V F L H R L T G G Y T W T L D D L D T C L E K K



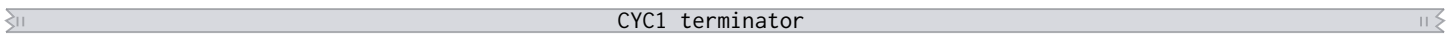
GGCCACATTCCAAGATTAAGAAACGGTTGTCCAATCACCTTGAAGTCTTGTCTAAATCAATGCCAGAAGCCTGAGACCCAGCTTTCTTGACAAAGTGGTgatgg
CCGGGTGTAAGTTCTAATTCTTTGCCAACAGGTTAGTGAACCTCAGGAACAGATTTAGTTACGGTCTTCCGACTCTGGGTCGAAAGAACATGTTTCACCActacc
A H I P R L R N G C P I T L K S L S K S M P E A *



gctgcaggaattcgatatcaagcttatcgataccgtcgacctcgagtcagtcagtaattagttatgtcacgcttacattcacgccctccccacatccgctctaaccga
cgacgtccttaagctatagttcgaatagctatggcagctggagctcagtcacattaatcaatacagtcgcaatgtaagtgcgggaggggggtgtaggcgagattggct



aaaggaaggagttagacaacctgaagtctaggctccctatttattttttatagttatgtagtattaagaacgttatttatatttcaaattttctttttttctgt
tttcttctcaatctgttggacttcagatccaggataaataaaaaaatcaatacaatcataattcttgcaataaataaaagtttaaaaagaaaaaaagaca



5,140 5,160 5,180 5,200 5,220 5,240

acagacgcgtgtacgcatgtaacattatactgaaaaccttgcttgagaaggttttgggacgctcgaaggcttaatttgcgatggggcggccgcgtttaaacggtac
tgtctgcgcacatgcgtacattgtaatatgacttttggaaacgaactcttccaaaacctgcgagcttccgaaataaacgtaccccgccggcgcaaatgtgcatg



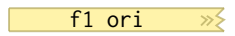
5,260 5,280 5,300 5,320 5,340

ccaattcgcctatagtgagtcgtattacgcgcgctcactggccgctgtttacaacgctgctgactgggaaaacctggcgttacccaacttaatcgcttgcagca
ggttaagcgggatcactcagcataatgcgcgcgagtgaccggcagcaaaatgttgcagcactgaccttttgggaccgcaatgggttgaattagcggaaacgtctg



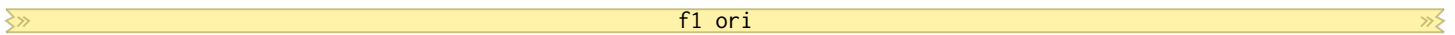
5,360 5,380 5,400 5,420 5,440

catccccctttcgcagctggcgtaatagcgaagaggcccgcaccgatcgcccttcccaacagttgctgagcctgaatggcgaatggcgcgacgcgcctgtagcgg
gtagggggaaagcggctgaccgcattatcgcttctccgggcgtggctagcgggaagggtgtcaacgcgtcggacttaccgcttaccgctgctgcgggacatcgcc



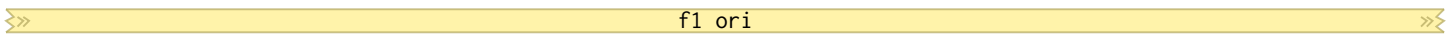
5,460 5,480 5,500 5,520 5,540 5,560

cgcattaagcgcggcggtgtgggtggttacgcgcagcgtgaccgctacacttgccagcgccttagcgcctcctttcgtttcttcccttctttctcgcacgt
gcgtaattcgcgcccaccacccaatgcgcgtcgcactggcgtatgtaacggctcgcgggatcgcgggcaggaaagcgaagaaggaaggaagagcgggtgca



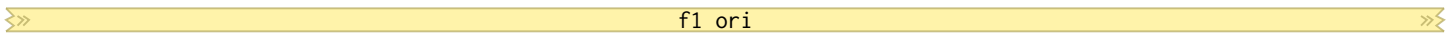
5,580 5,600 5,620 5,640 5,660

tcgcccgtttccccgtcaagctctaaatcggggctcccttagggttccgatttagtgctttacggcacctcgacccccaaaaaacttgattagggatgaggttca
agcggccgaaagggcagttcgagatttagccccgagggaaatccaaggctaaatcacgaaatgccgtggagctggggtttttgaaactaatcccactaccaagt



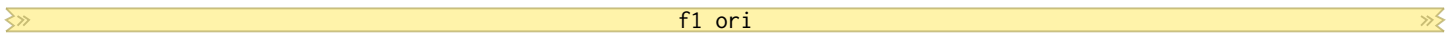
5,680 5,700 5,720 5,740 5,760

cgtagtgggccatcgccctgatagacggtttttcgcctttgacgttggagtccagttctttaatagtgactctgttccaaactggaacaacactcaaccctat
gcatcaccggtagcgggactatctgccccaaaagcgggaaactgcaacctcaggtgcaagaattatcacctgagaacaaggtttgacctgtgtgagttgggata



5,780 5,800 5,820 5,840 5,860 5,880

ctcggctattcttttgatttataagggattttgccgatttcggcctattggttaaaaaatgagctgatttaacaaaaatgaacggaatttaacaaaatattaa
gagccagataagaaaactaaatattccctaaaacggctaaagccggataaccaatttttactcgactaaattgtttttaaattgcgcttaaaattgtttataatt



5,900 5,920 5,940 5,960 5,980

cgttacaatttctgatgcggtatTTTctccttacgcatctgtgCGGTATTTcaccgcataggaagtcacaaacaataacttaataaatactactcagtaat
gcaaatgttaaaggactacgccataaaagaggaatgCGTtagacagccataaaagtgtggCGTatccgTtcacgtgttTgttatgaattttatgatgagtcatta

>> f1 ori



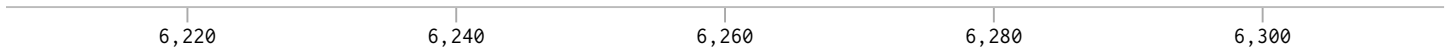
aacctatttcttagcatttttgacgaaatttgctattttgttagagcttttacaccatttTgtctccacacctccgcttacatcaacaccaataacgccatttaac
ttggataaagaatcgtaaaaactgctttaaacgataaaacaatctcagaaaatgtggtaaacagaggTgtggaggcgaatgtagttgtggTtatTgcggtaaattag

TRP1



taagcgcacaccaacattttctggcgtcagtcaccagctaacataaaatgtaagctttcggggctctctTgccttccaaccagtcagaaatcagttccaatcc
attcgcgtagtggtTgtaaaagaccgcagtcaggtggTcgatTgtattttacattcgaagccccgagagaacggaaggTgggtcagTctttagctcaaggttagg

TRP1



aaaagttcacctgtcccactgcttctgaatcaacaagggaaataaacgaatgaggtttctgtgaagctgcactgagtagtatgtTgcagTctttTgaaatacagag
tttcaagTggacagggTggacgaagacttagttTgtcccttattTgcttactccaaagacactTcgacgtgactcatcatacaacgtcagaaaacctttatgctc

TRP1



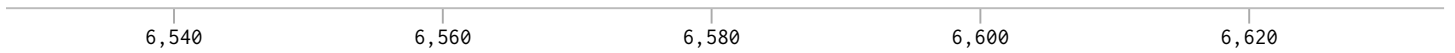
tctTTaataactggcaaacagggaactctTggtattctTgccacgactcatctccatgcagttggacgatataatgccgtaatacattgaccagagccaaaacat
agaaaattatTgaccgtTggctcctTgagaaccataagaacggTgctgagtagaggtacgtcaacctgctatagttacggcattagtaactggTctcggtTttgta

TRP1



cctccttaggtTgattacgaaacagccaaccaagtattTcggagTgcctgaactattttatataTgctttTacaagactTgaaattTtctTgcaataaccgggtca
ggaggaatccaactaatgctTttTgTcggtTggtTcataaaagcctcagggactTgataaaaatatacgaaaatgTtctgaaactTtaaaaggaacgTtatTggccagT

TRP1



attgtTctctTtctattTgggcacacataataaccagcaagtcagcatcggaaatctagagcacattctgCGGcctctgtgctctgcaagccgaaactTtccaa
taacaagagaagataaacccgtgtgtatattatgggtcgtTcagTcgtagccttagatctcgtgtaagacgCCggagacagagacgtTcggcgtTtgaaagtggTt

TRP1

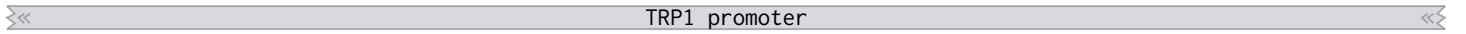


tggaccagaactacctgtgaaattaataacagacatactccaagctgcctTttgtgTcttaatcacgtatactcacgtgctcaatagtcaccaatgcctcctctt
acctggTctTgatggacactTtaattatTgtctgtatgaggtTcgacgaaacacacgaattagTgcatatgagTgcacagTtatcagTggtTtacgggaggagaa

TRP1 TRP1 promoter

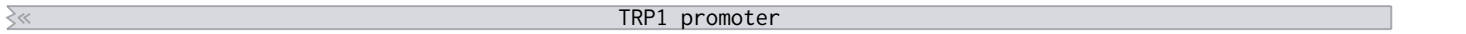


ggccctctccttttctttttcgaccgaattaattcttaatcggcaaaaaaagaaagctccggatcaagattgtacgtaaggtgacaagctattttcaataaaga
ccgggagaggaaaagaaaaagctggcttaattaagaattagccgttttttcttttcgaggcctagttctaacatgcattccactgttcgataaaaagttatttct



6,860 6,880 6,900 6,920 6,940

atatcttccactactgccatctggcgtcataactgcaaagtacacatatattacgatgctgtctattaaatgcttcctatattatataatagtaatgtcgtttatg
tatagaaggtgatgacggtagaccgcagtattgacgtttcatgtgtatataatgctacgacagataatttacgaaggatataatataatataatcattacagcaaatac



6,960 6,980 7,000 7,020 7,040 7,060

gtgactctcagtacaatctgctctgatgccgatagttaagccagccccgacaccgccaacaccgctgacgcgccctgacgggcttgtctgtctccggcatccg
cacgtgagagtcatgttagacgagactacggcgtatcaatcggtcggggctgtgggcggttgtgggcgactgacgaggactgcccgaacagacgaggccgtaggc

7,080 7,100 7,120 7,140 7,160

cttacagacaagctgtgaccgtctccgggagctgcatgtgtcagaggttttcaccgtcatcaccgaaacgcgcga
gaatgtctgttcgacactggcagaggccctcgacgtacacagtctccaaaagtggcagtagtggctttgcgcgct

7,170 7,180 7,190 7,200 7,210 7,220 7,230 7,240