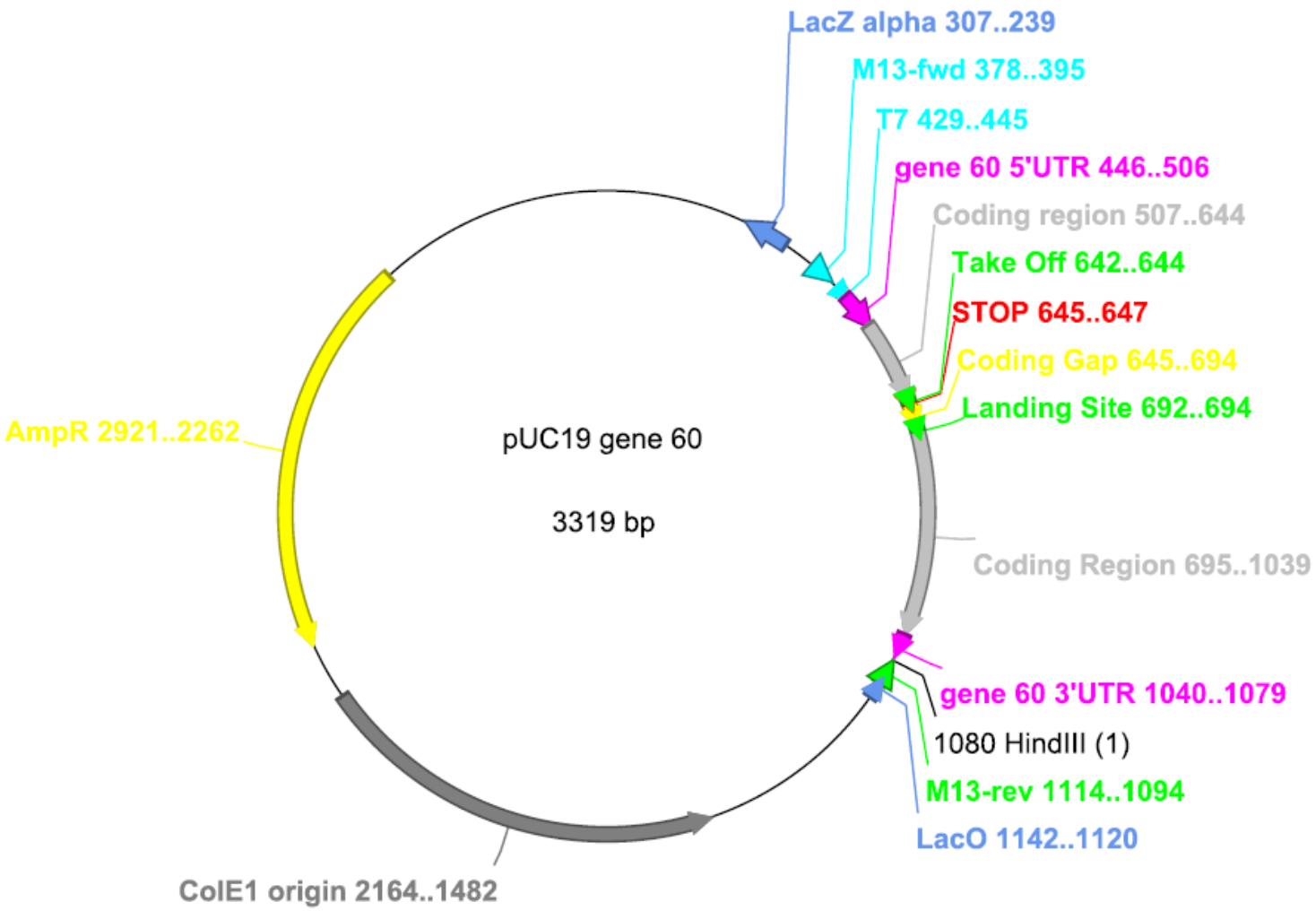
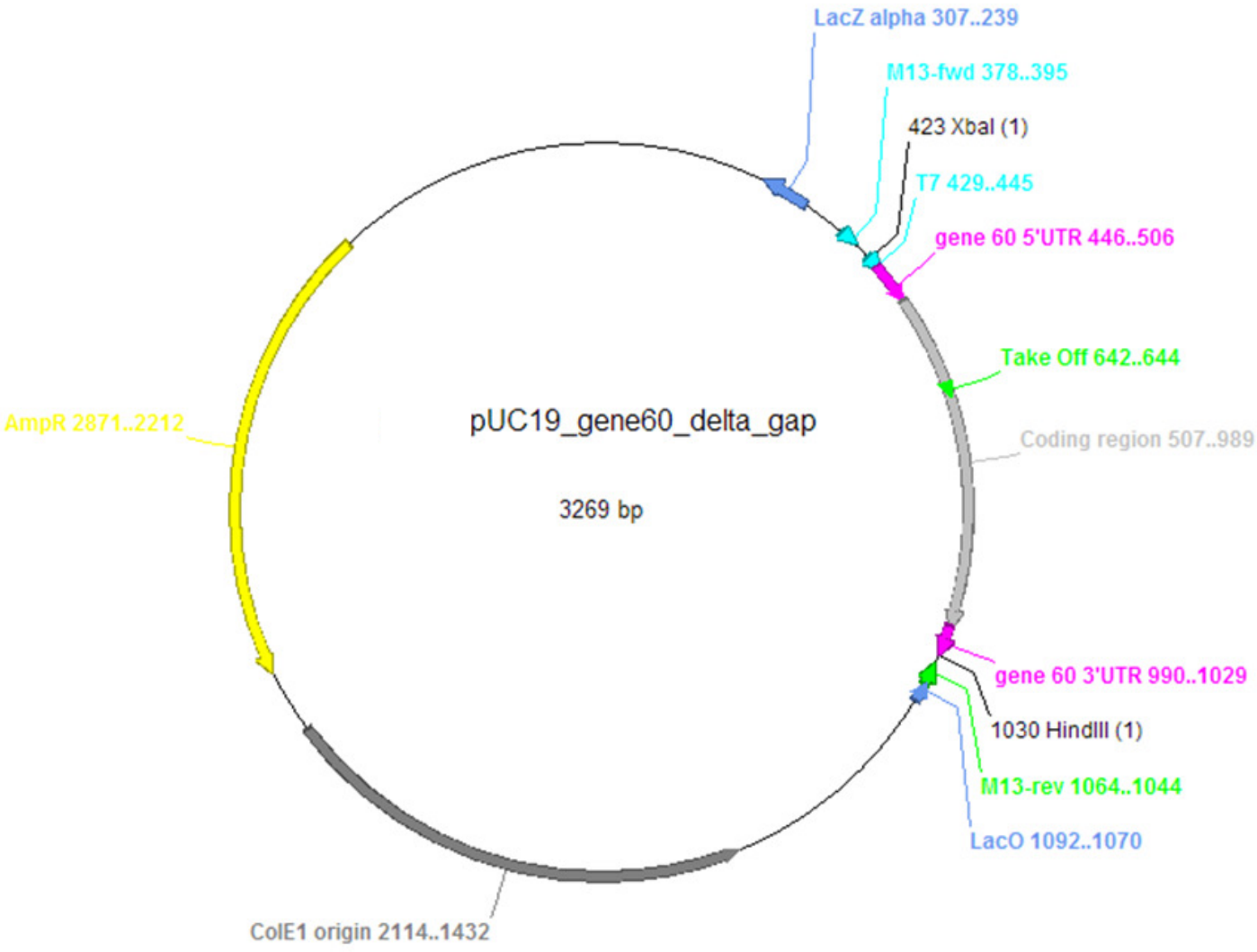
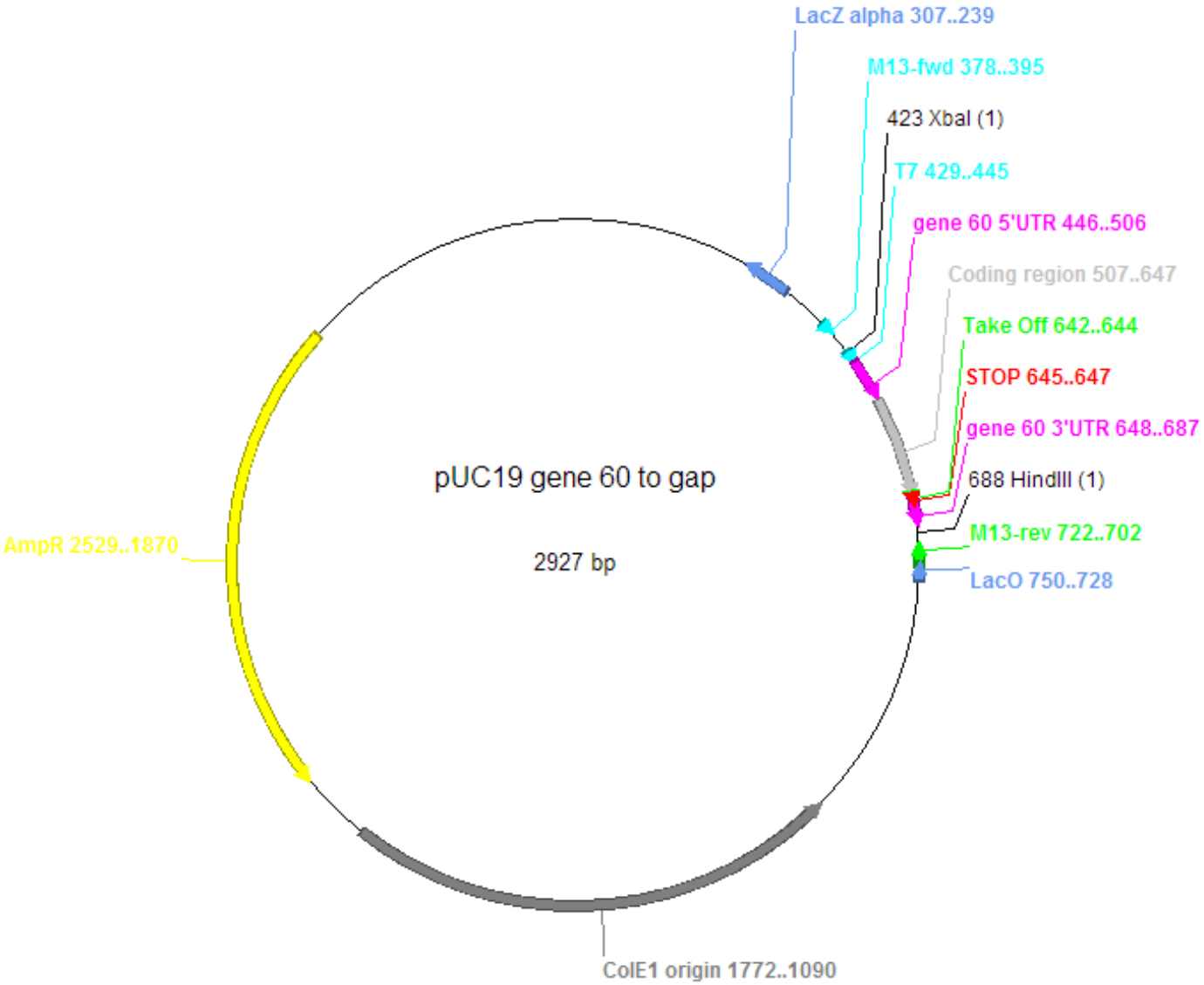
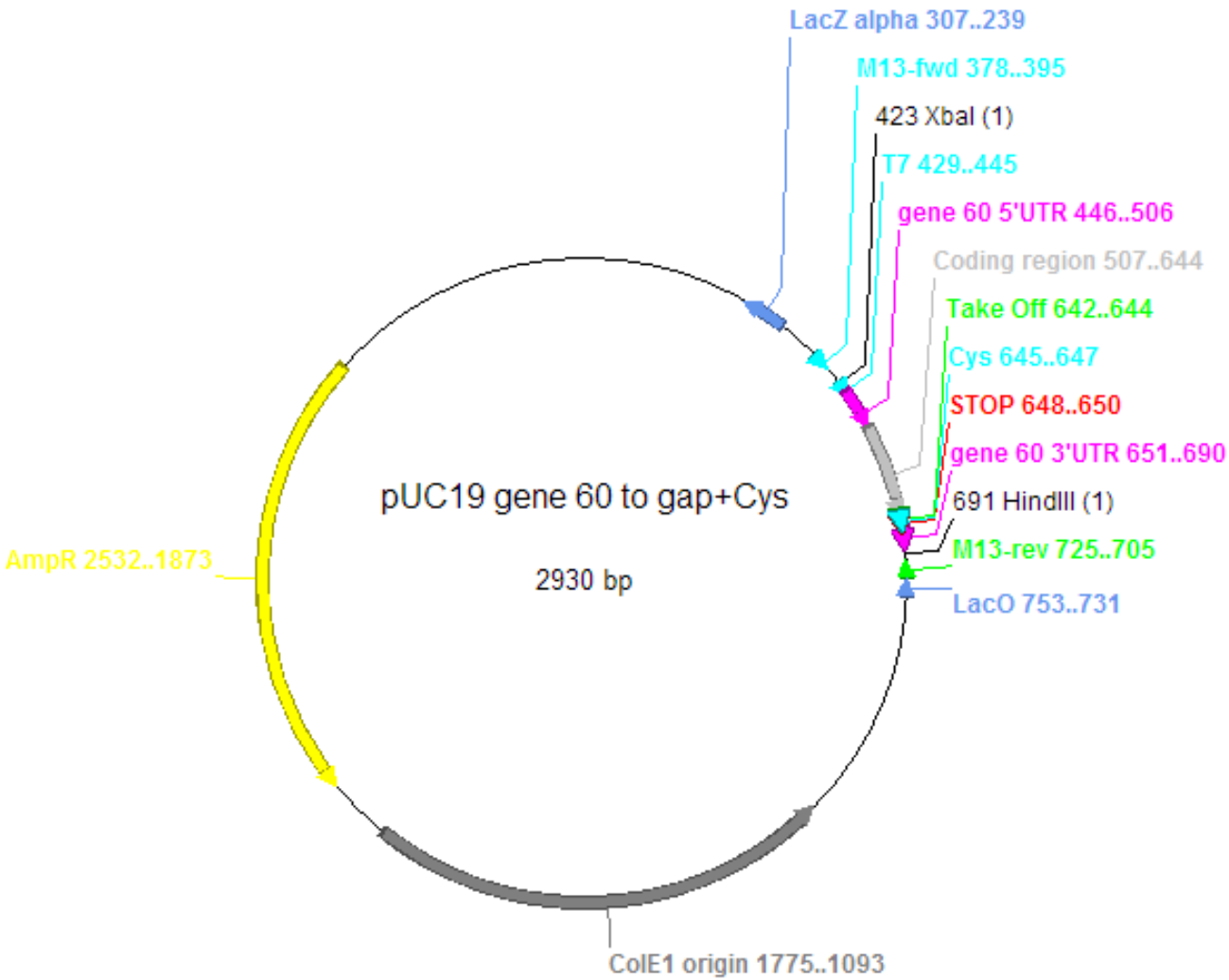
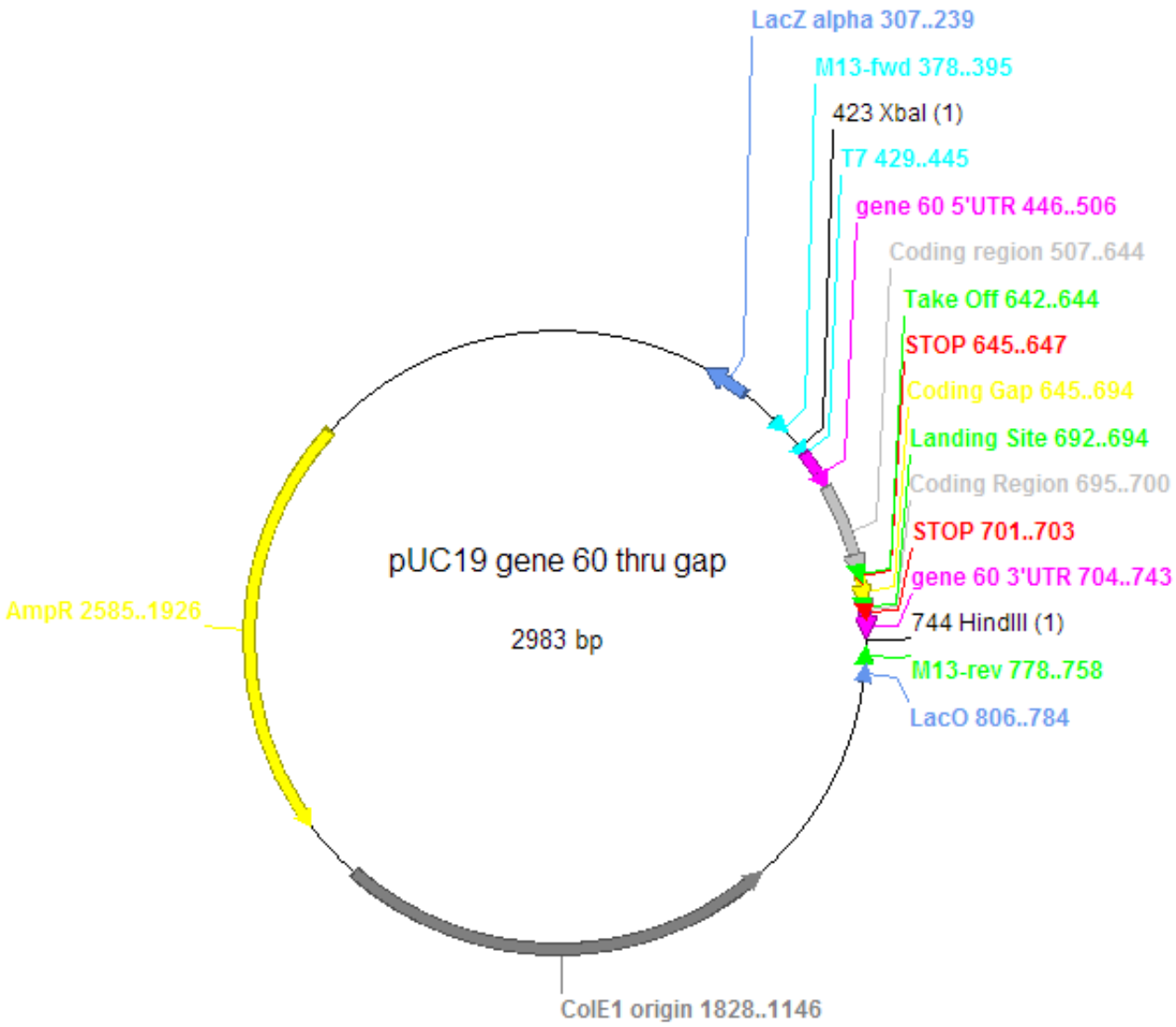

LacZ alpha 307..239
M13-fwd 378..395
T7 429..445
gene 60 5'UTR 446..506
Coding region 507..644
Take Off 642..644
STOP 645..647
Coding Gap 645..694
Landing Site 692..694
AmpR 2921..2262
pUC19 gene 60
3319 bp
Coding Region 695..1039
gene 60 3'UTR 1040..1079
1080 HindIII (1)
M13-rev 1114..1094
LacO 1142..1120
ColE1 origin 2164..1482


LacZ alpha 307..239
M13-fwd 378..395
423 XbaI (1)
T7 429..445
gene 60 5'UTR 446..506
Take Off 642..644
Coding region 507..989
pUC19_gene60_delta_gap
3269 bp
AmpR 2871..2212
gene 60 3'UTR 990..1029
1030 HindIII (1)
M13-rev 1064..1044
LacO 1092..1070
ColE1 origin 2114..1432


LacZ alpha 307..239
M13-fwd 378..395
423 XbaI (1)
T7 429..445
gene 60 5'UTR 446..506
Coding region 507..647
Take Off 642..644
STOP 645..647
gene 60 3'UTR 648..687
688 HindIII (1)
M13-rev 722..702
LacO 750..728
pUC19 gene 60 to gap
2927 bp
AmpR 2529..1870
ColE1 origin 1772..1090


LacZ alpha 307..239
M13-fwd 378..395
423 XbaI (1)
T7 429..445
gene 60 5'UTR 446..506
Coding region 507..644
Take Off 642..644
Cys 645..647
STOP 648..650
gene 60 3'UTR 651..690
691 HindIII (1)
M13-rev 725..705
LacO 753..731
pUC19 gene 60 to gap+Cys
2930 bp
AmpR 2532..1873
ColE1 origin 1775..1093


LacZ alpha 307..239
M13-fwd 378..395
423 XbaI (1)
T7 429..445
gene 60 5'UTR 446..506
Coding region 507..644
Take Off 642..644
STOP 645..647
Coding Gap 645..694
Landing Site 692..694
Coding Region 695..700
STOP 701..703
gene 60 3'UTR 704..743
744 HindIII (1)
M13-rev 778..758
LacO 806..784
pUC19 gene 60 thru gap
2983 bp
AmpR 2585..1926
ColE1 origin 1828..1146