

E.ADEM v0.0.4.1

Work Progress

2009.6.20

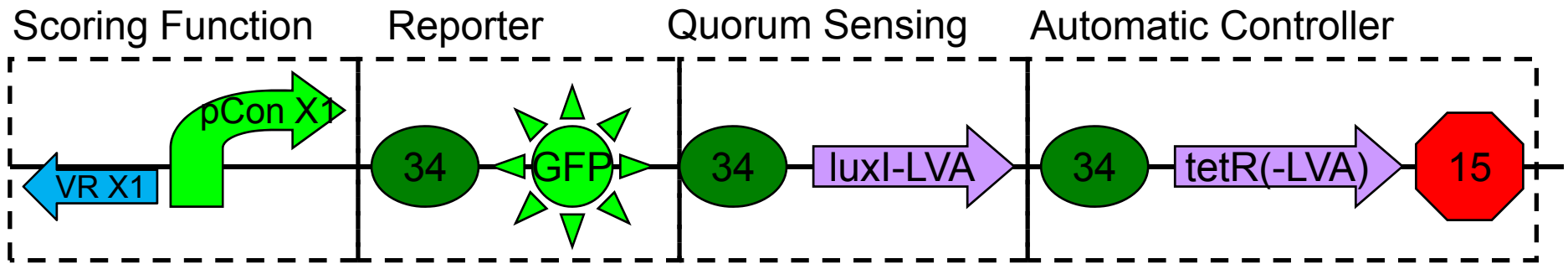
2009.5.3

47 days

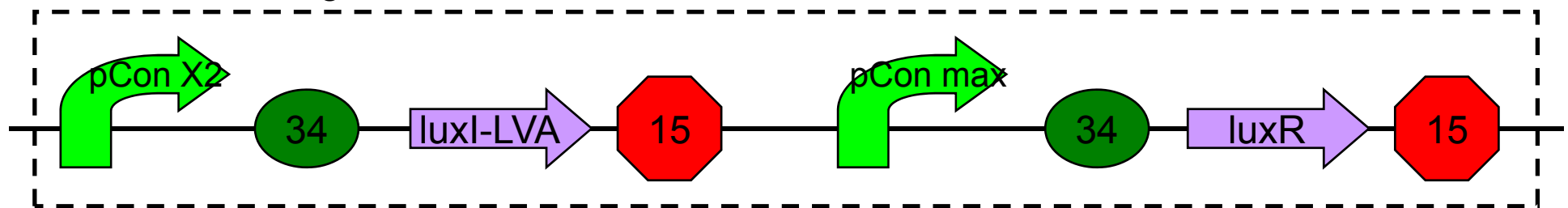
2009.6.13

131 days

2009.10.30

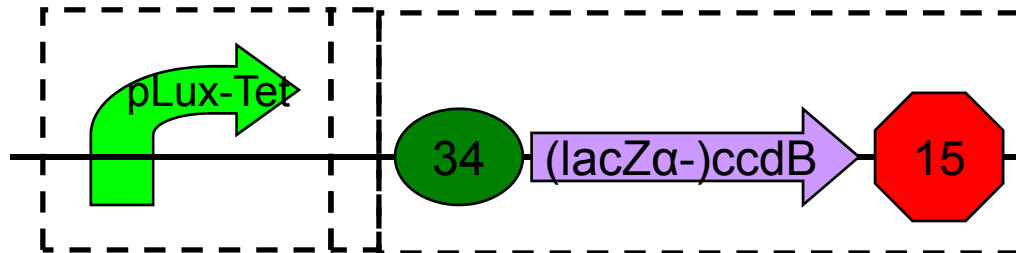


Quorum Sensing



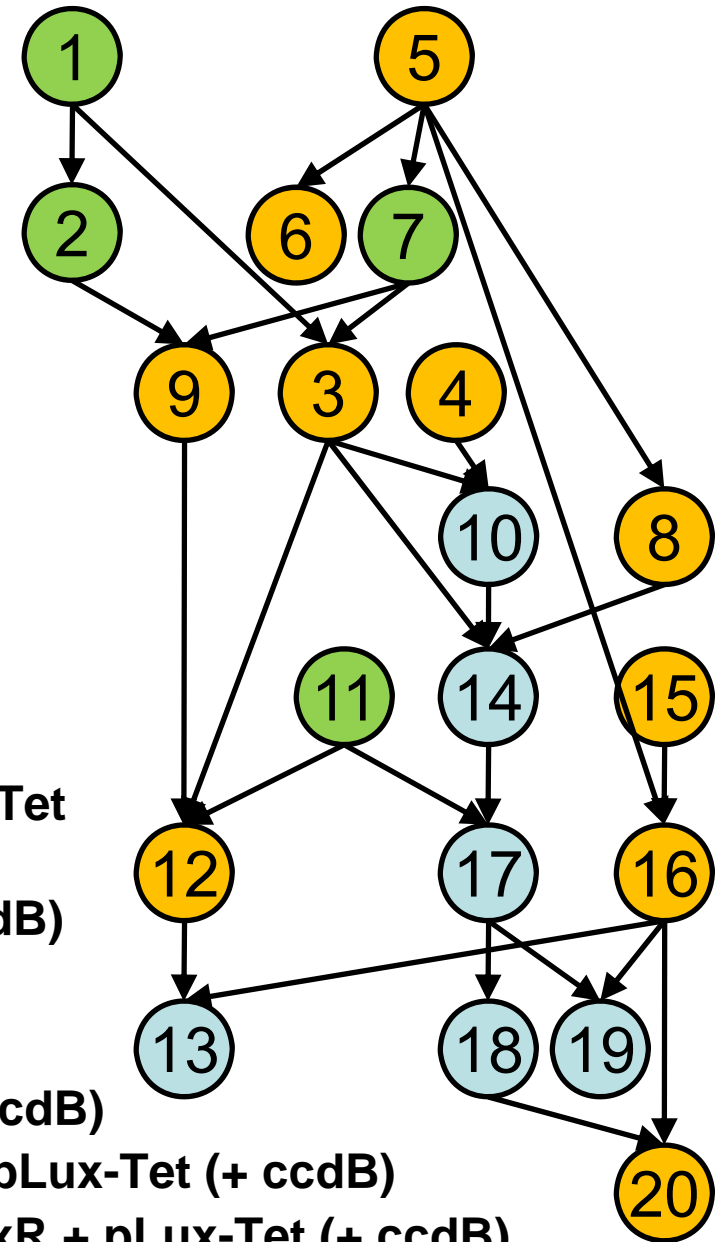
Quorum Sensing

Selection Function

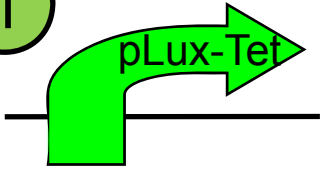


1. pLux-Tet
2. pLux-Tet + GFP
3. pCon + luxR + pLux-Tet
4. ccdB × 2
5. pCon × 8
6. pCon × 8 + GFP
7. pCon + luxR
8. pCon × 7 + luxI (AHL detection by 9 or GC-MS ?)
9. pCon + luxR + pLux-Tet + GFP (AHL)
10. pCon + luxR + pLux-Tet + ccdB × 2 (AHL)
11. tetR × 2
12. tetR × 2 + pCon + luxR + pLux-Tet (+ GFP)
13. (VR + pCon) × 8 + tetR × 2 + pCon + luxR + pLux-Tet (+ GFP) (AHL/aTc)
14. (pCon × 7 +) luxI + pCon + luxR + pLux-Tet (+ ccdB)
15. VR × 8
16. (VR + pCon) × 8
17. tetR + pCon + luxI + pCon + luxR + pLux-Tet (+ ccdB)
18. GFP + luxI + tetR + pCon + luxI + pCon + luxR + pLux-Tet (+ ccdB)
19. (VR + pCon) × 8 + tetR + pCon + luxI + pCon + luxR + pLux-Tet (+ ccdB)
20. (VR + pCon) × 8 + GFP + luxI + tetR + pCon + luxI + pCon + luxR + pLux-Tet (+ ccdB)

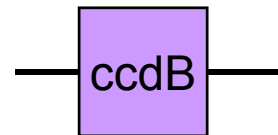
Waiting
Working
Done
Sequenced



1



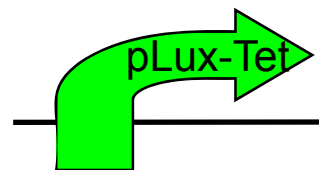
K176000 X+P with nicks
Sequence OK



P1010 in pSB1A3 in DB 3.1
Length OK

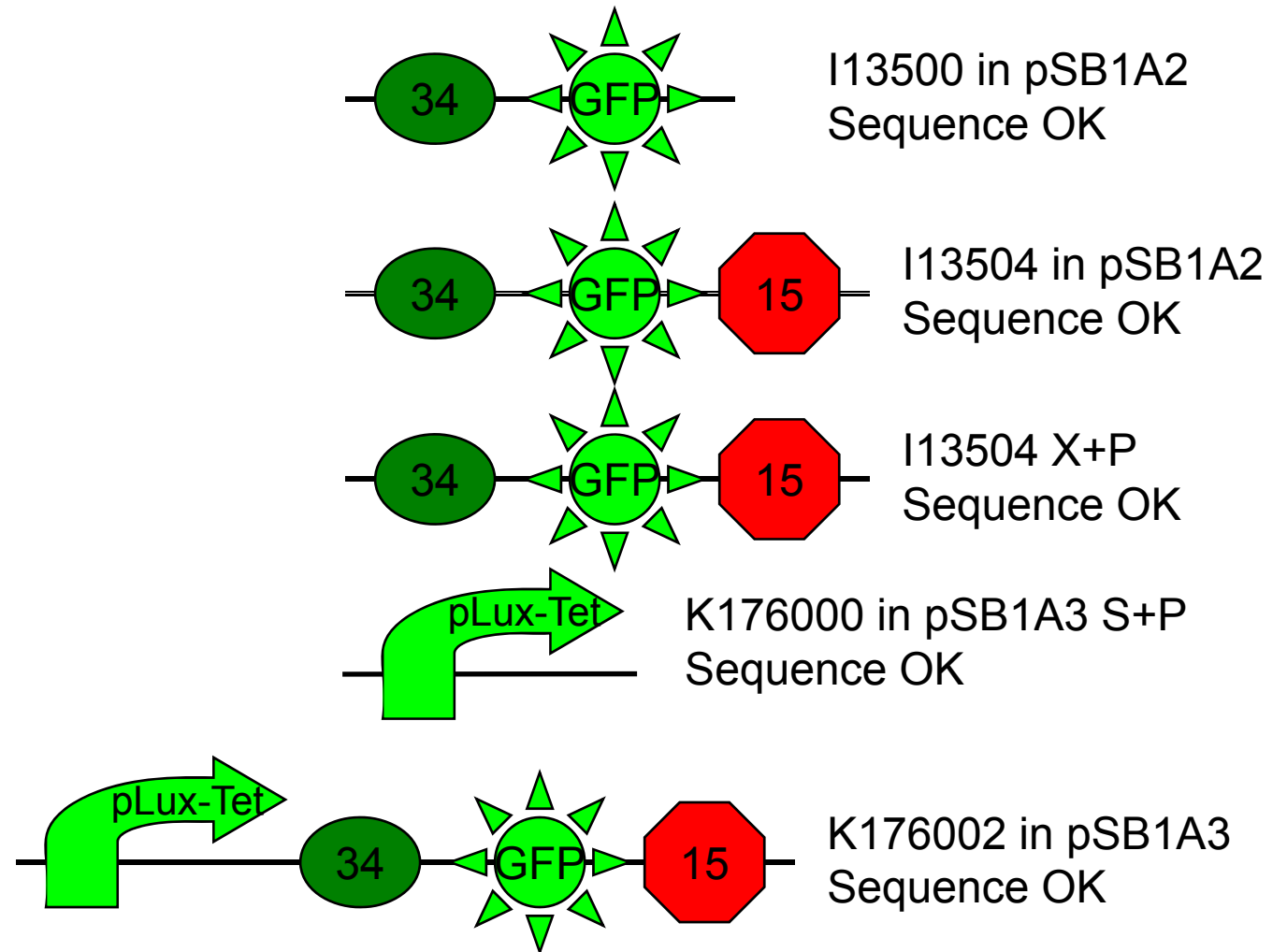


pSB1A3 X+P
Length OK



K176000 in pSB1A3
Sequence OK

2

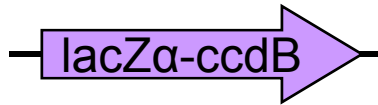


4



K145151 in pSB1A2 in DB 3.1

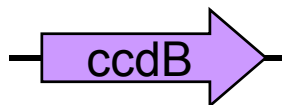
Sequence OK
K176003 Fragment Length OK



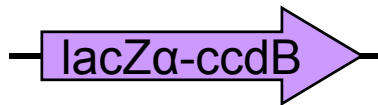
B0034 in pSB1A2
Sequence OK



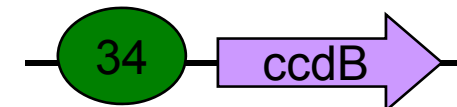
B0034 in pSB1A2 S+P
Length OK



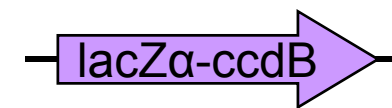
K145151 X+P
Length OK



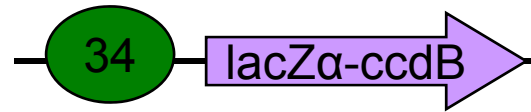
K176003 X+P
Length OK



in pSB1A2 in DB 3.1
Ligation



K176003 in pSB1A3 in DB 3.1
Sequencing

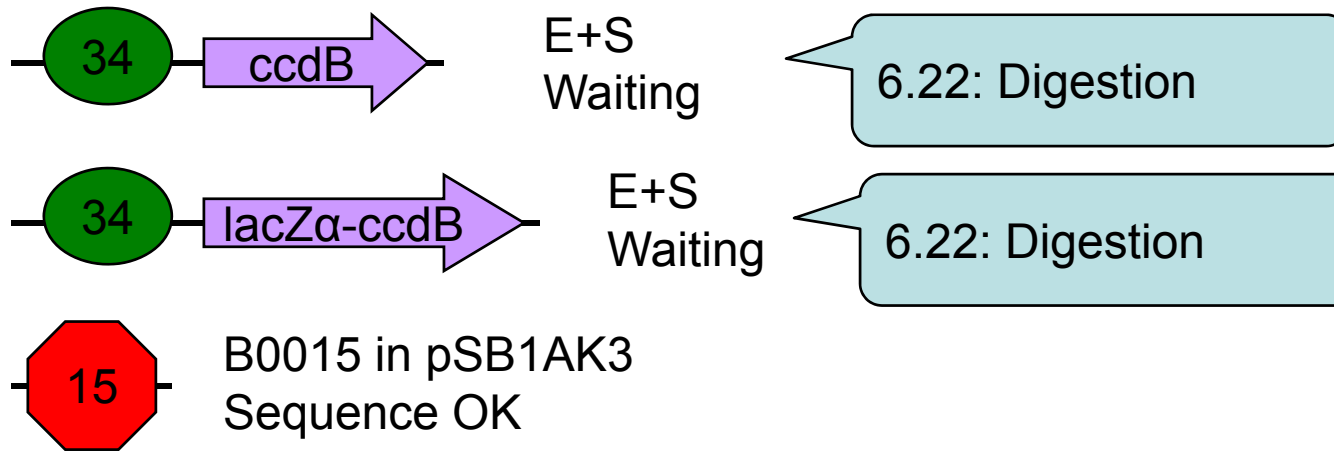


in pSB1A2 in DB 3.1
Ligation

6.21: Ligation;
Colony PCR
6.22: Mini-Prep;
Sequencing
6.25: Sequence OK

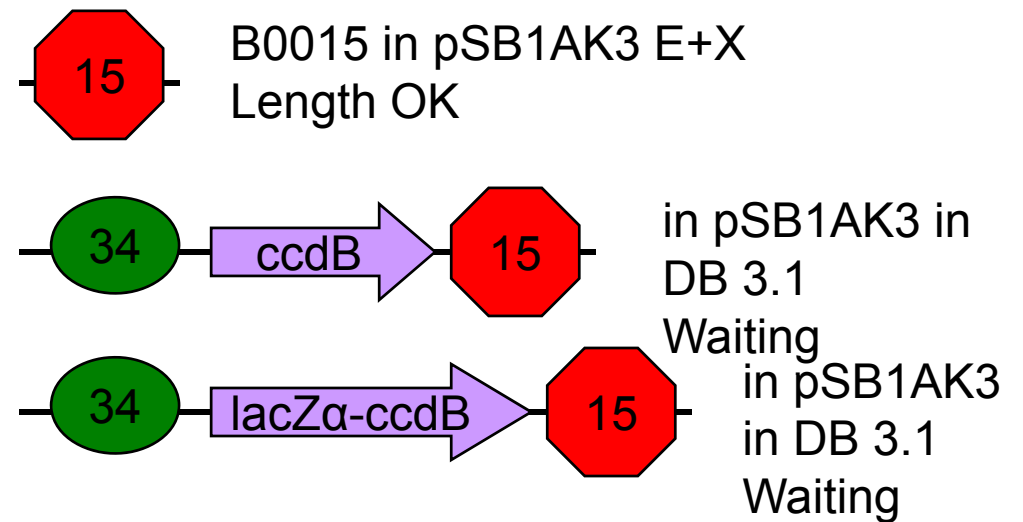
6.21: Ligation;
Colony PCR
6.22: Mini-Prep;
Sequencing
6.25: Sequence OK

6.20: Sequence OK

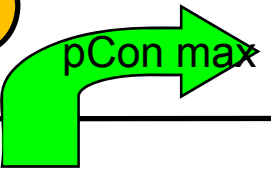


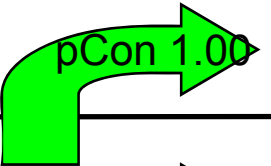
6.22: Ligation
 6.23: Colony PCR;
 Mini-Prep
 6.24: Sequencing
 6.27: Sequence OK

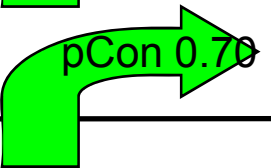
6.22: Ligation
 6.23: Colony PCR;
 Mini-Prep
 6.24: Sequencing
 6.27: Sequence OK

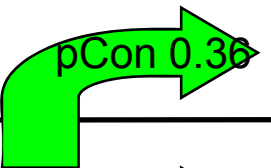


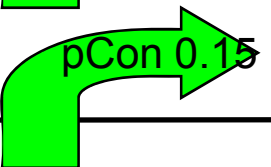
5

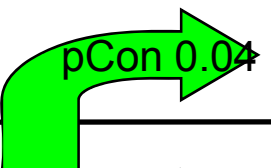
 J23119 in pSB1A2
Sequence OK

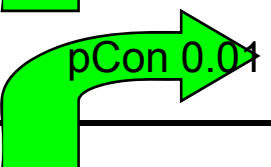
 J23100 in J61002
Length OK

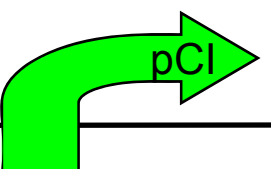
 J23101 in J61002
Sequence OK

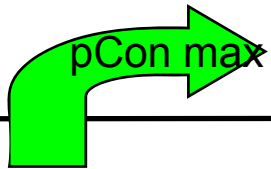
 K176009 in J61002
Sequence OK

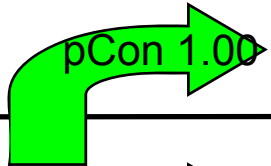
 K176008 in J61002
Sequence OK

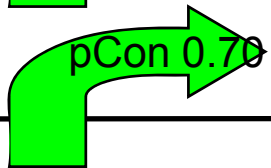
 J23109 in J61002
Sequence OK

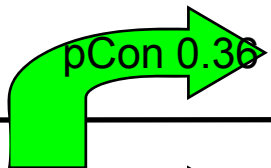
 J23103 in J61002
Sequence OK

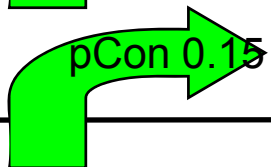
 R0051 in pSB1A2
Sequence ?

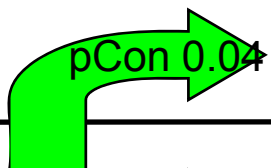
 J23119 X+P
Sequence OK

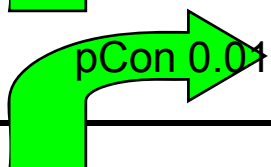
 J23100-J61002SF X+P
Length OK

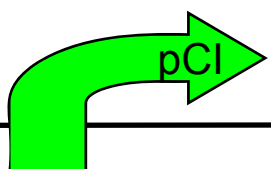
 J23101-J61002SF X+P
Sequence OK

 K176009-J61002SF X+P
Sequence OK

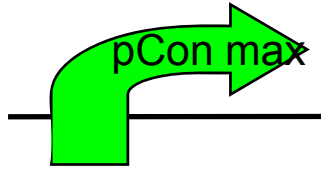
 K176008-J61002SF X+P
Sequence OK

 J23109-J61002SF X+P
Sequence OK

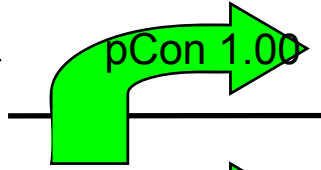
 J23103-J61002SF X+P
Sequence OK

 R0051 X+P
Digestion

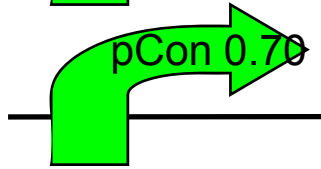
6.21: Mini-Prep;
Sequencing
6.24: Sequence OK



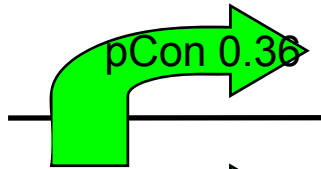
J23119 in pSB1A3
Sequence OK



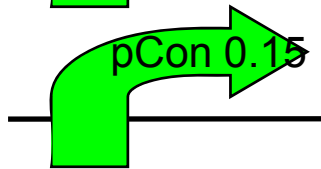
J23100 in K176007
Mini-Prep



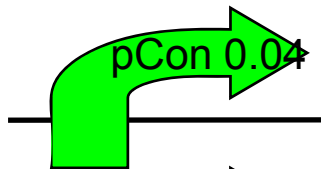
J23101 in K176007
Sequence OK



K176009 in K176007
Sequence OK

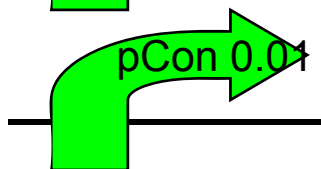


K176008 in K176007
Sequence OK

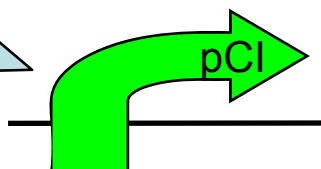


J23109 in K176007
Sequence OK

6.21: Ligation
6.22: Colony PCR;
Mini-Prep
6.23: Sequencing
6.26: Sequence OK

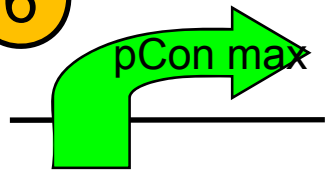


J23103 in K176007
Sequence OK

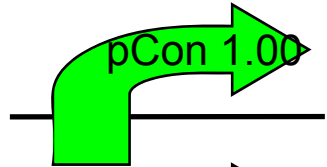


R0051 in pSB1A3
Waiting

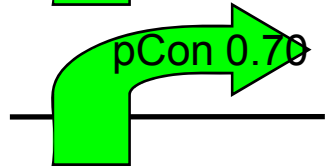
6



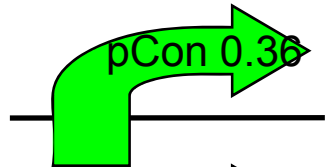
J23119 in pSB1A3 S+P
Length OK



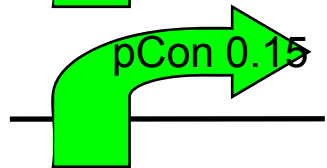
J23100 in K176007 S+P
Waiting



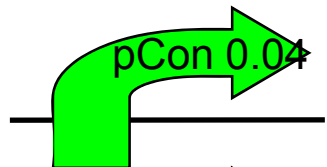
J23101 in K176007 S+P
Length OK



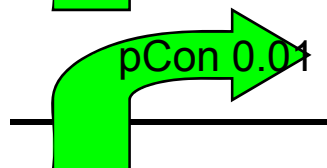
K176009 in K176007 S+P
Length OK



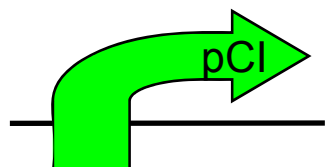
K176008 in K176007 S+P
Length OK



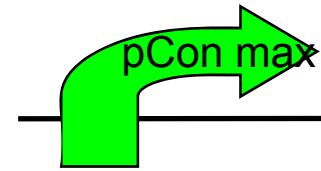
J23109 in K176007 S+P
Length OK



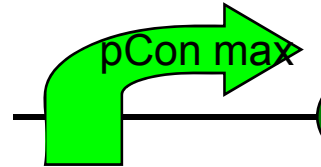
J23103 in K176007 S+P
Length OK



R0051 in pSB1A3 S+P
Waiting



J23119 in pSB1A2 S+P
Sequence OK

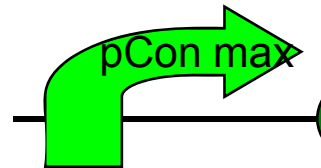


34



15

K176005 in pSB1A2
Sequence OK



34



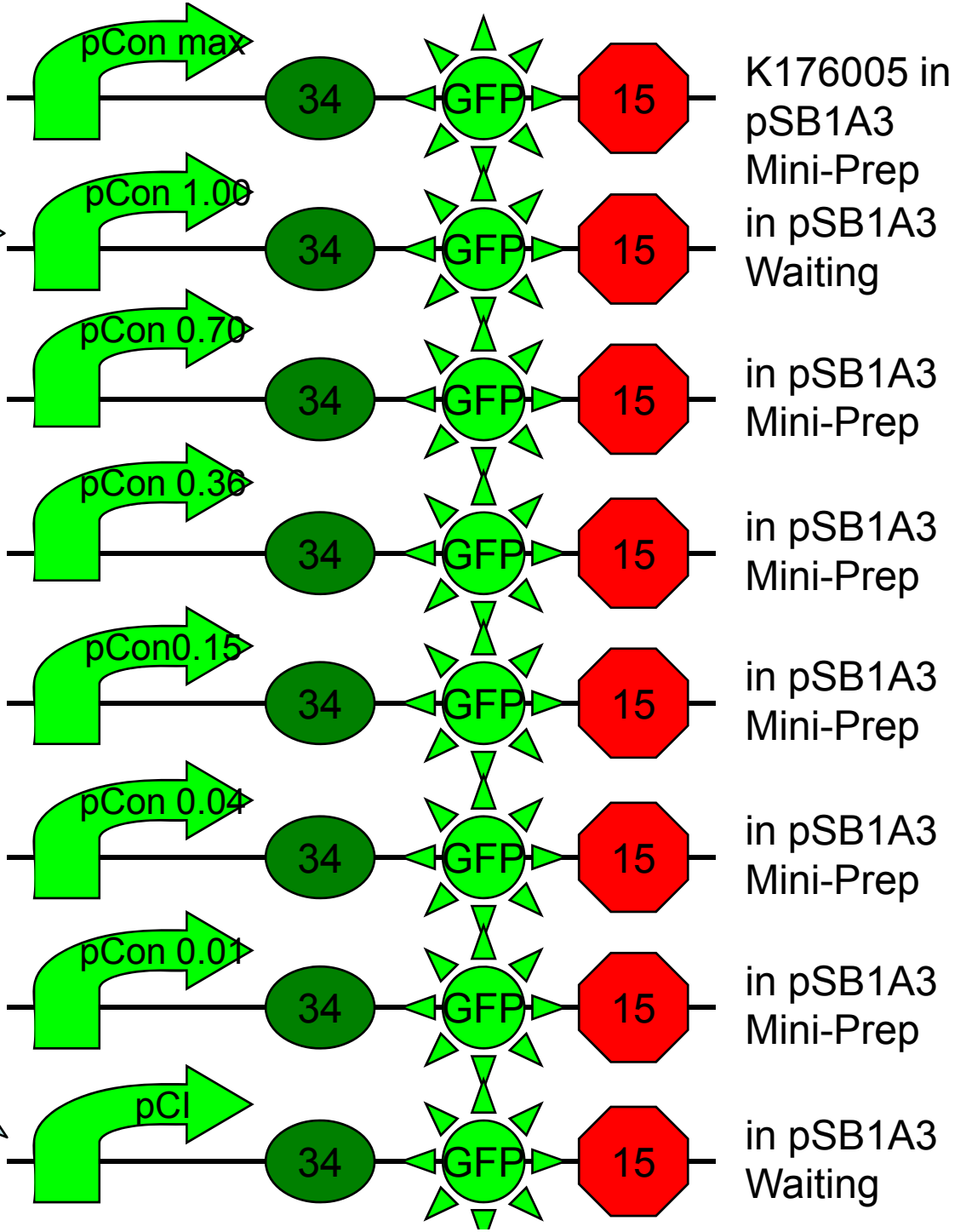
15

K176005 X+P
Length OK

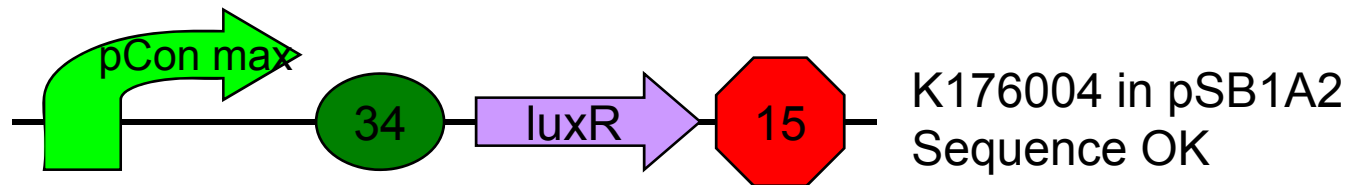
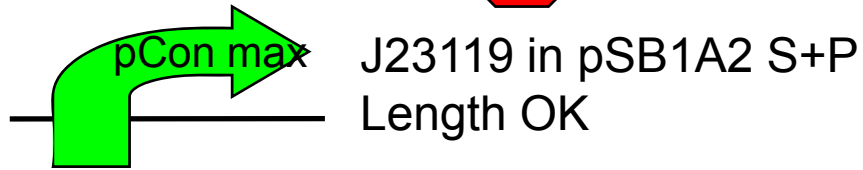
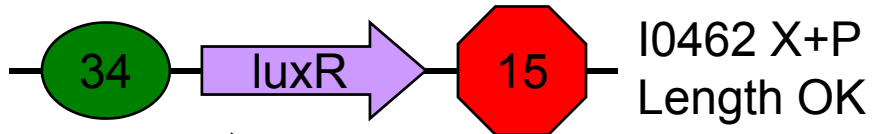
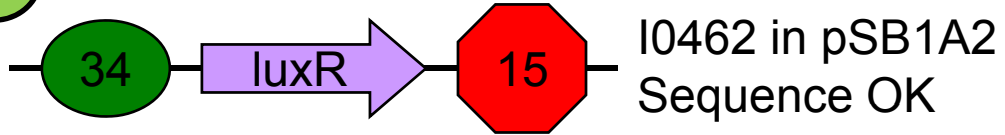
6.22: Ligation
6.23: Colony PCR;
Mini-Prep
6.24: Sequencing
6.27: Sequence OK

6.21: Mini-Prep;
Sequencing
6.24: Sequence OK

6.24: Ligation
6.25: Colony PCR;
Mini-Prep
6.26: Sequencing
6.29: Sequence OK



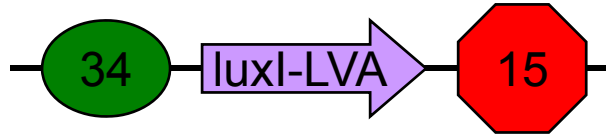
7



8

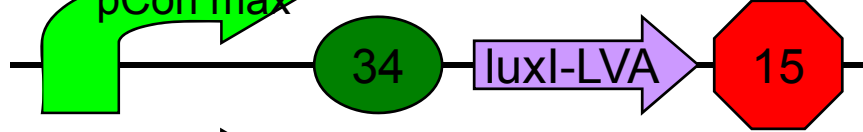
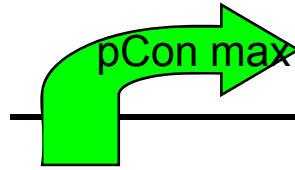


K082014 X+P
Length OK

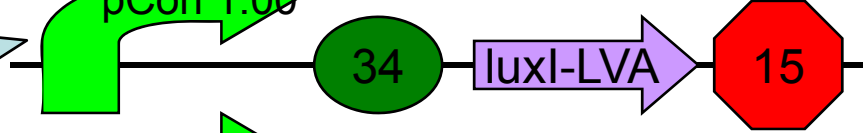
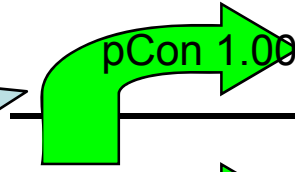


K082014 in pSB1AK3
Sequence OK

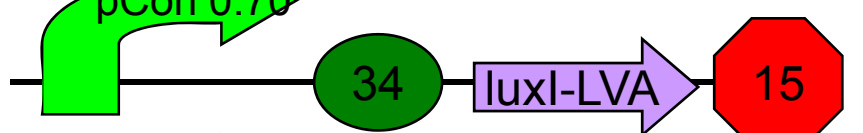
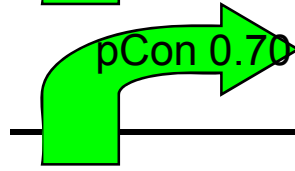
6.22: Ligation
6.23: Colony PCR;
Mini-Prep
6.24: Sequencing
6.27: Sequence OK



in pSB1A3
Mini-Prep

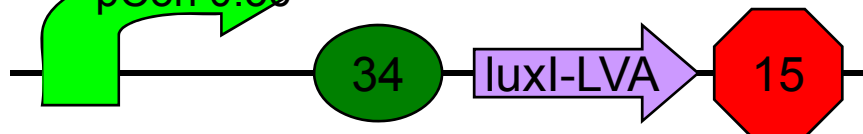
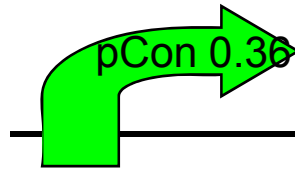


in pSB1A3
Waiting

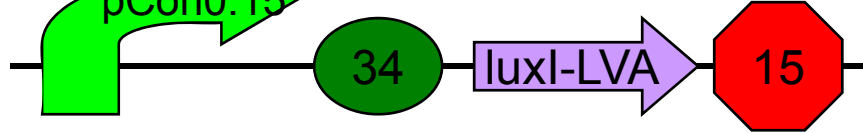
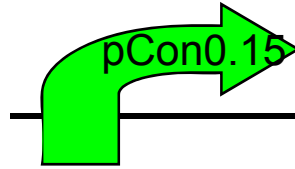


in pSB1A3
Mini-Prep

6.21: Mini-Prep;
Sequencing
6.24: Sequence OK

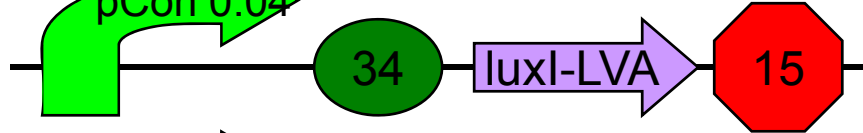
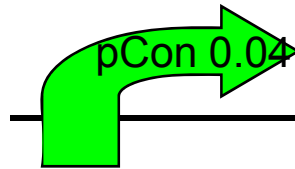


in pSB1A3
Mini-Prep

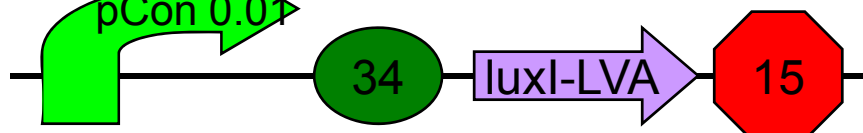
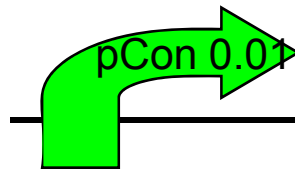


in pSB1A3
Mini-Prep

6.24: Ligation
6.25: Colony PCR;
Mini-Prep
6.26: Sequencing
6.29: Sequence OK

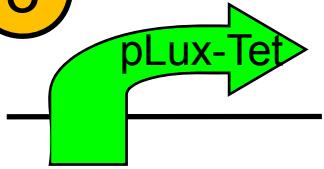


in pSB1A3
Mini-Prep



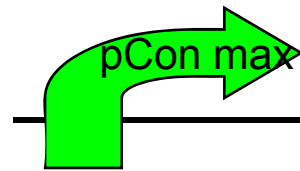
in pSB1A3
Waiting

3



K176000 in pSB1A3 E+X
Length OK

6.21: Ligation;
Colony PCR
6.22: Mini-Prep;
Sequencing
6.25: Sequence OK

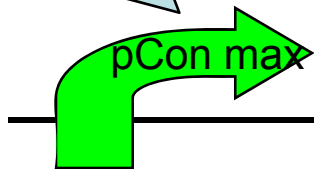


34



15

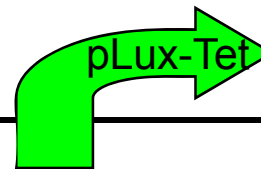
K176004 E+S
Length OK



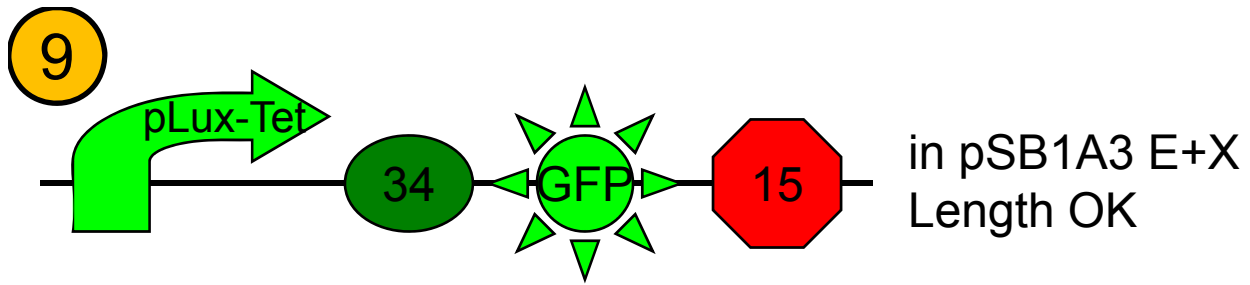
34



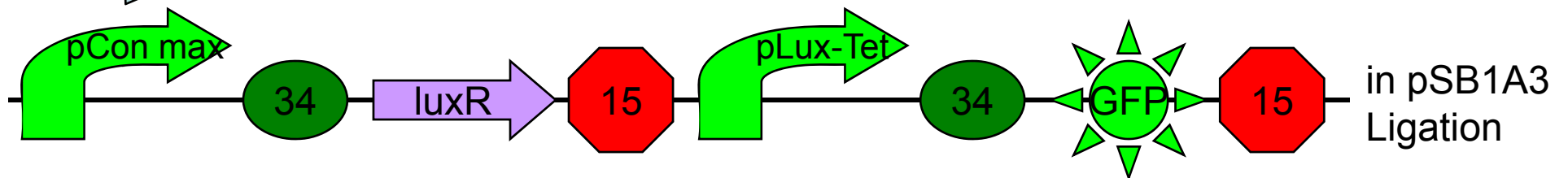
15

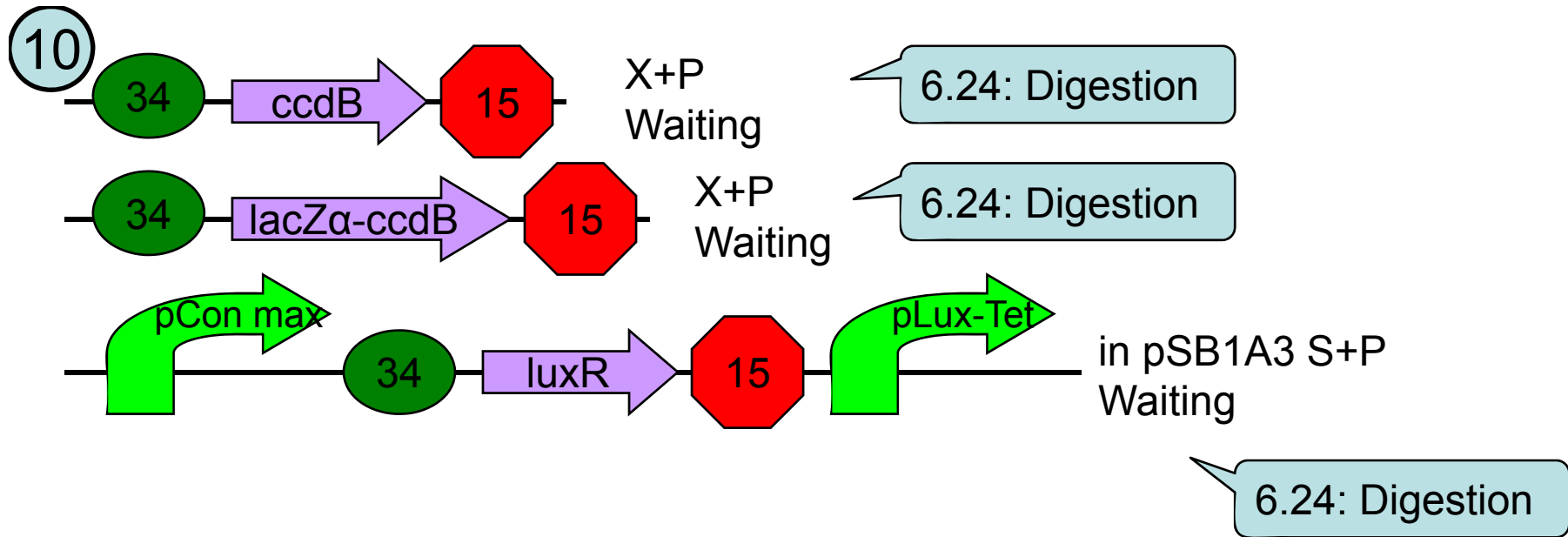


in pSB1A3
Ligation

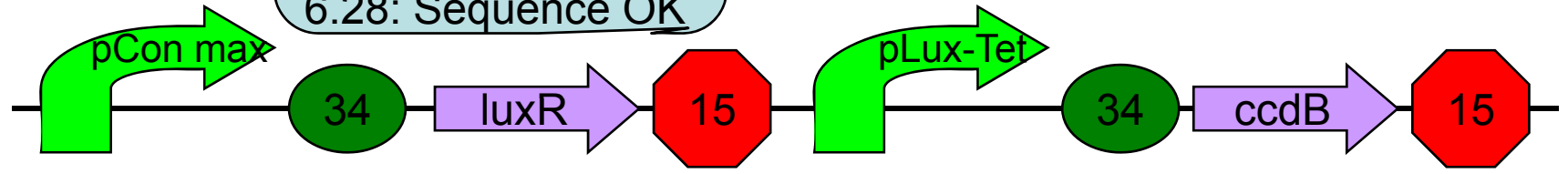


6.21: Ligation;
Colony PCR
6.22: Mini-Prep;
Sequencing
Primer Design;
Sequencing
6.25: Sequence OK

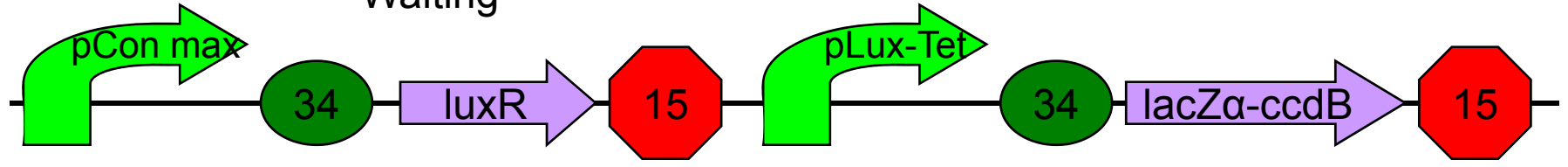




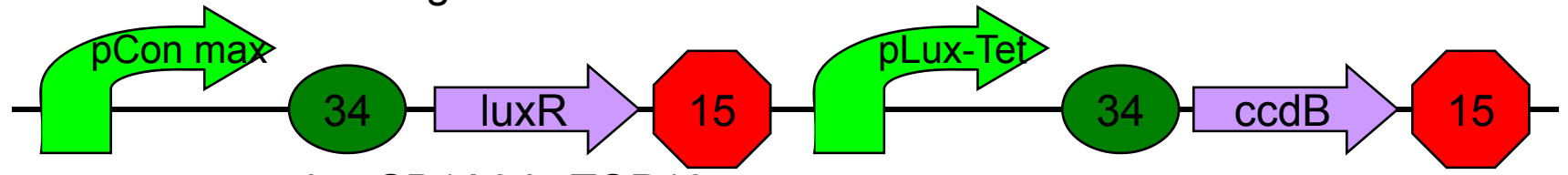
6.24: Ligation
6.25: Colony PCR;
Mini-Prep
6.26: Sequencing
6.28: Sequence OK



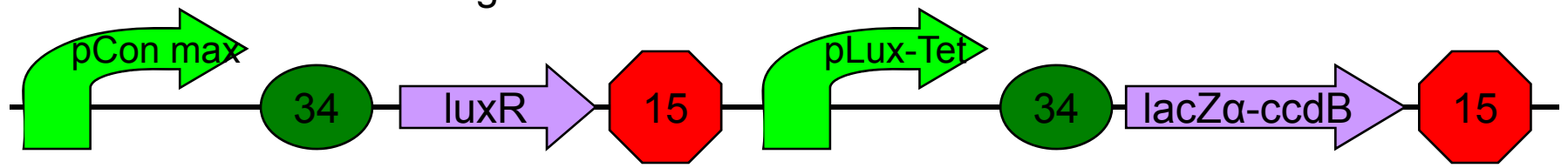
in pSB1A3 in DB 3.1
Waiting



in pSB1A3 in DB 3.1
Waiting

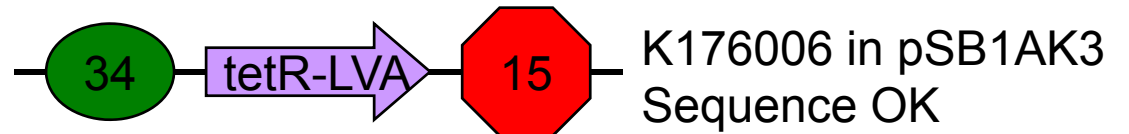
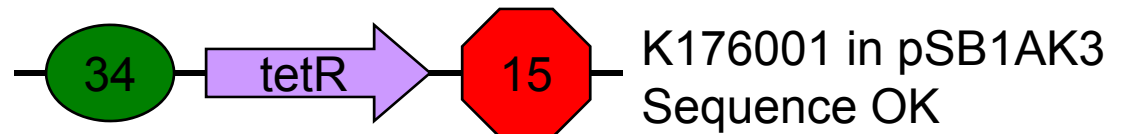
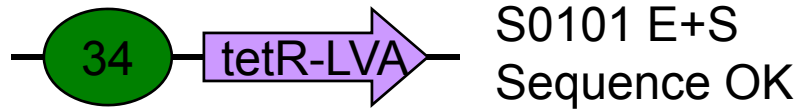
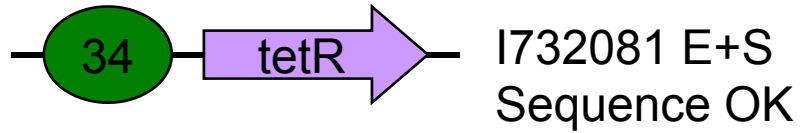
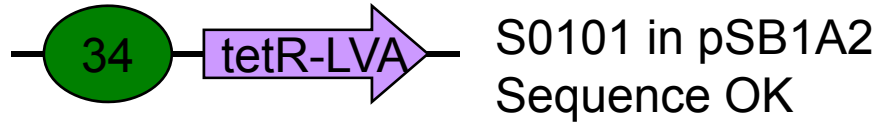
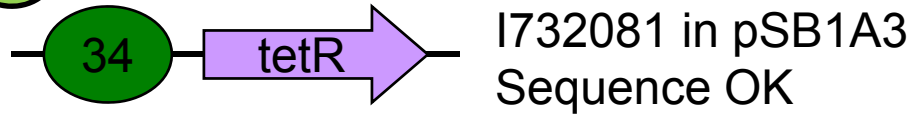


in pSB1A3 in TOP10
Waiting

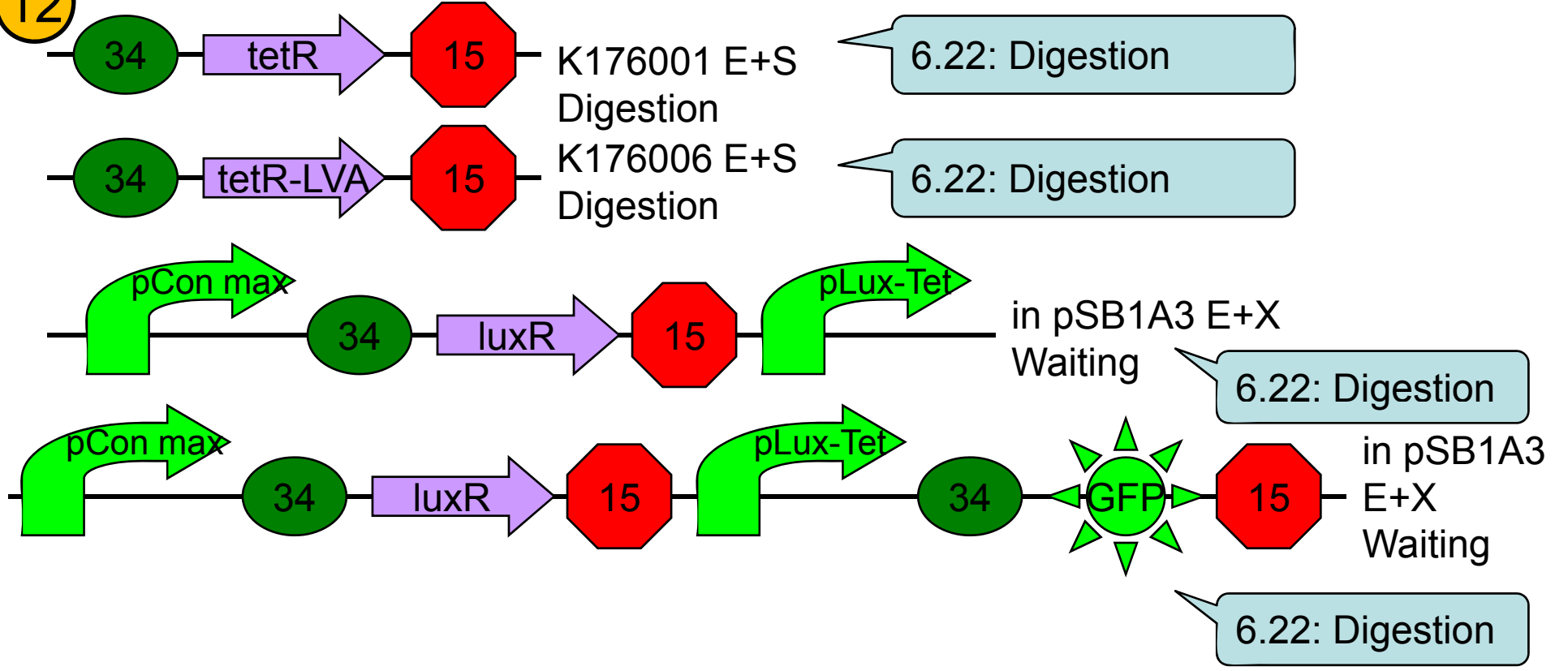


in pSB1A3 in TOP10
Waiting

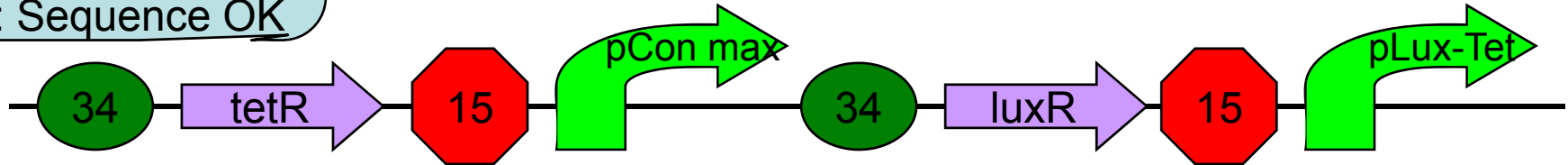
11



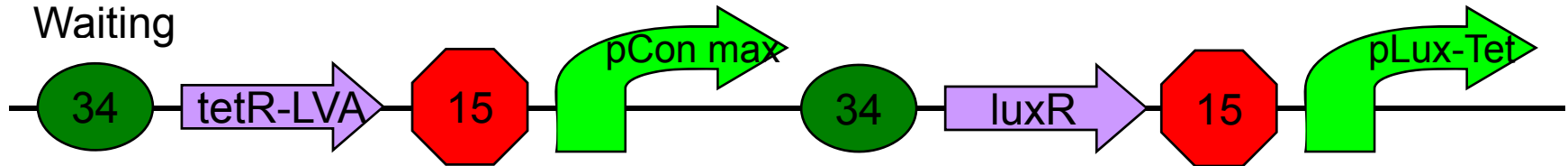
12



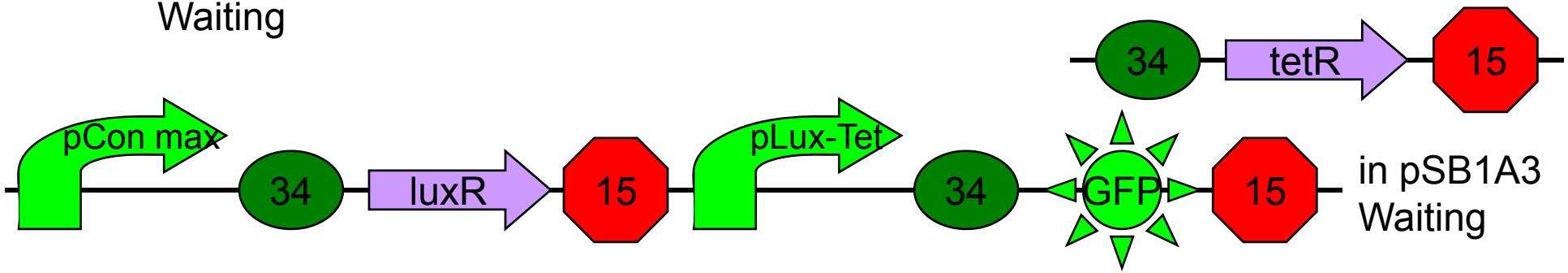
6.22: Ligation
 6.23: Colony PCR;
 Mini-Prep
 6.24: Sequencing
 6.27: Sequence OK



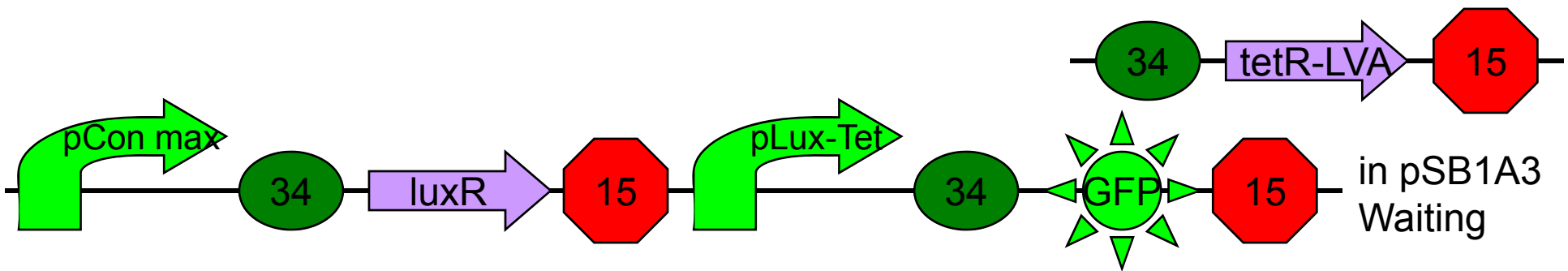
in pSB1A3
 Waiting



in pSB1A3
 Waiting

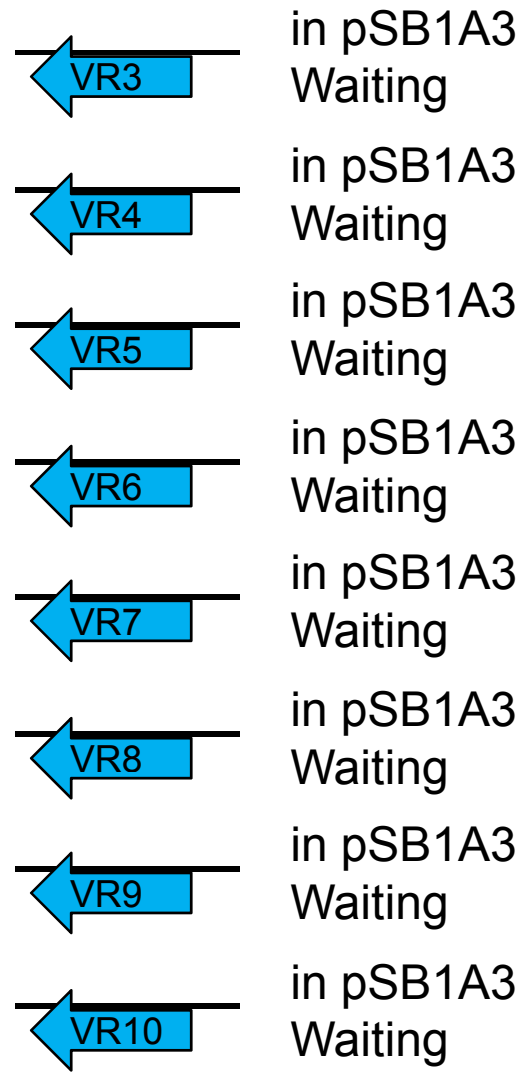
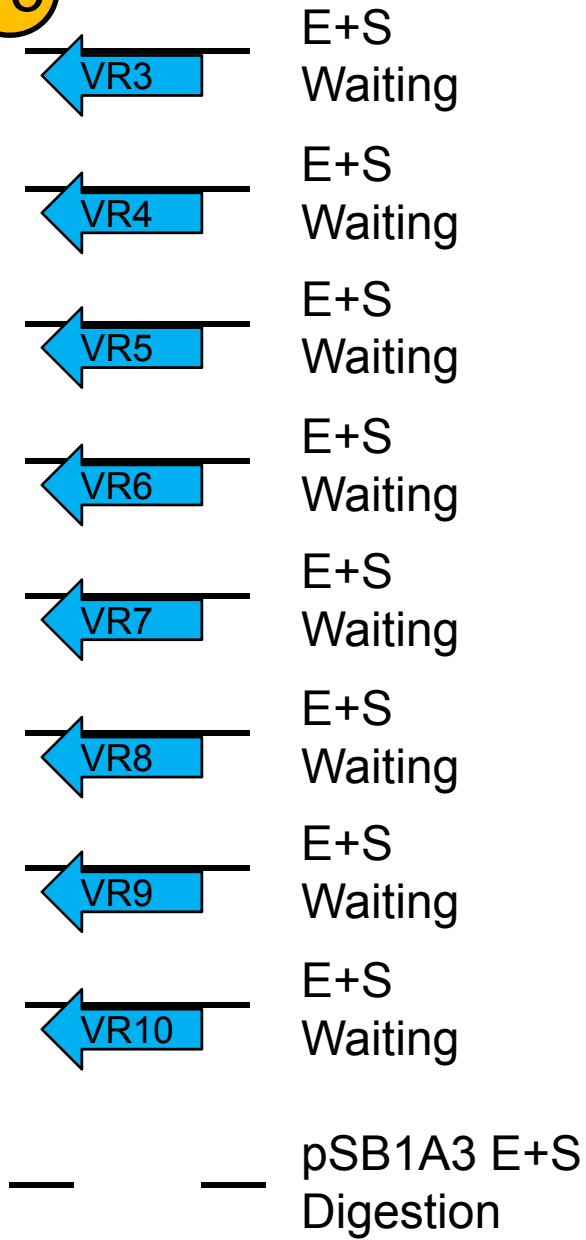


in pSB1A3
 Waiting

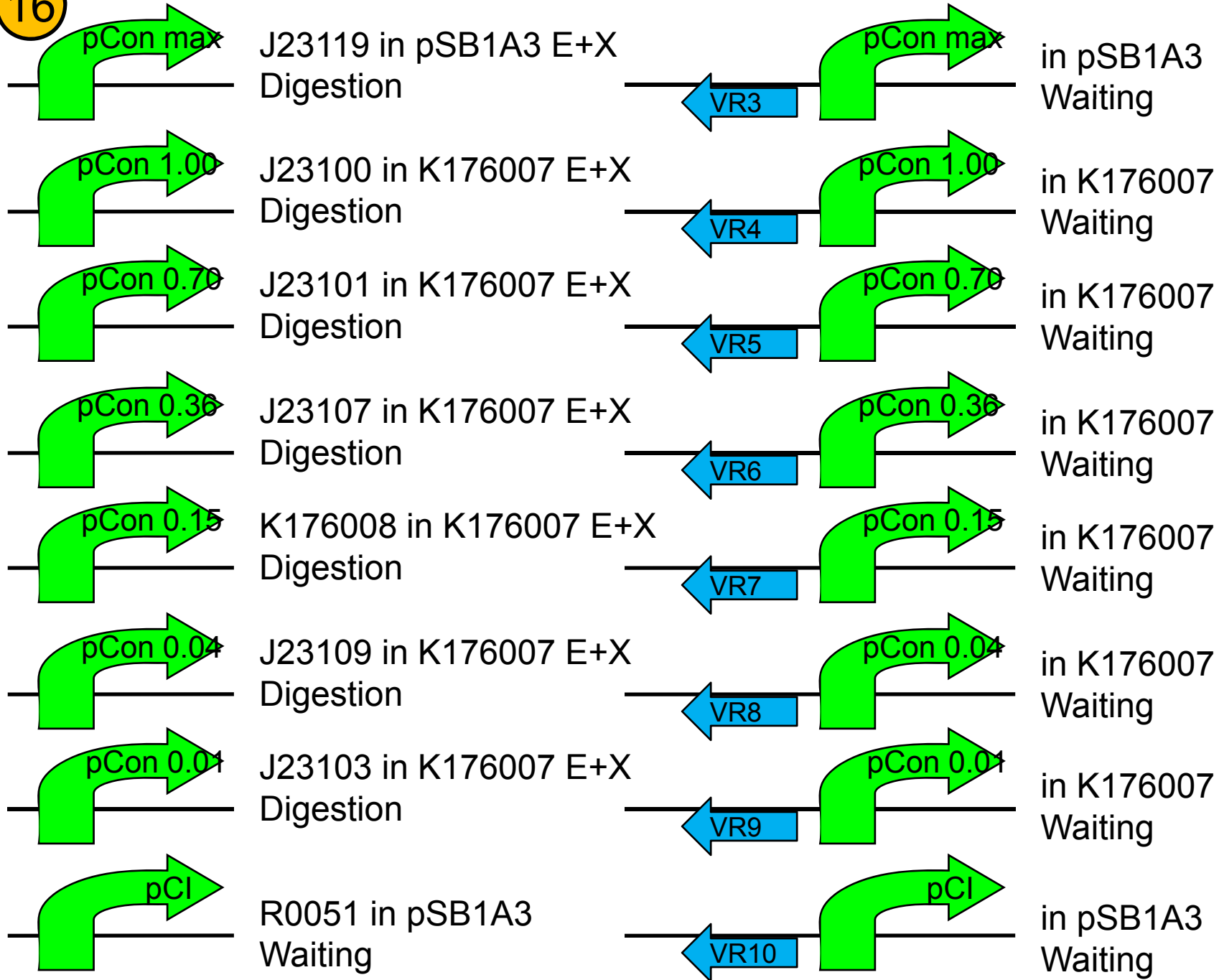


in pSB1A3
 Waiting

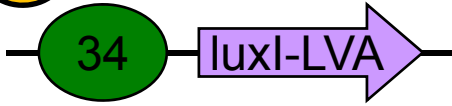
15



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C0261 in pSB1A2
Sequence OK