

E.ADEM v0.0.4.2

Work Progress

2009.7.4

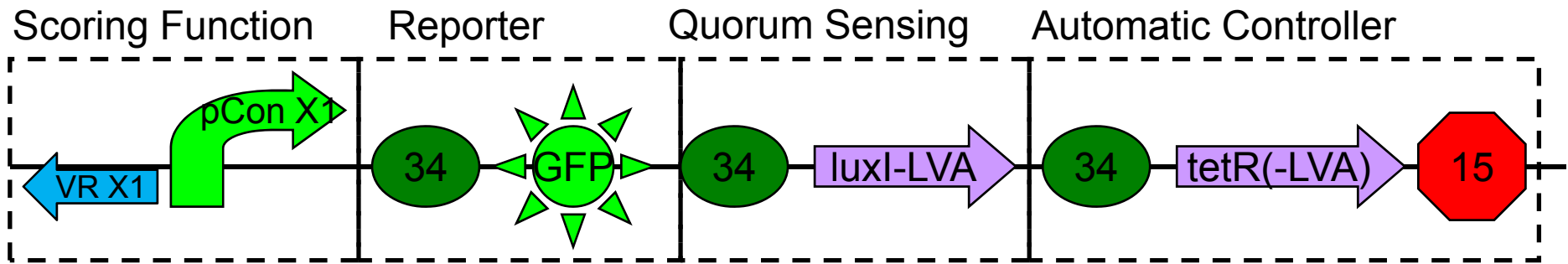
2009.5.3

61 days

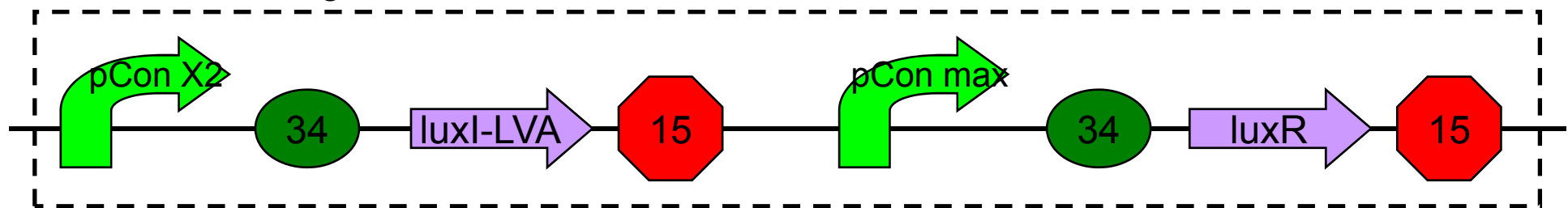
2009.7.4

117 days

2009.10.30

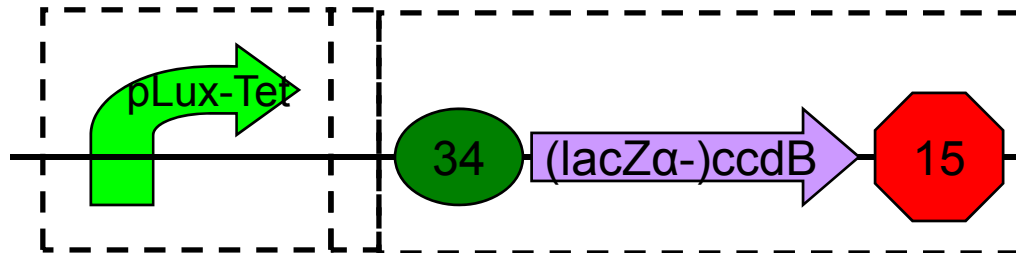


Quorum Sensing



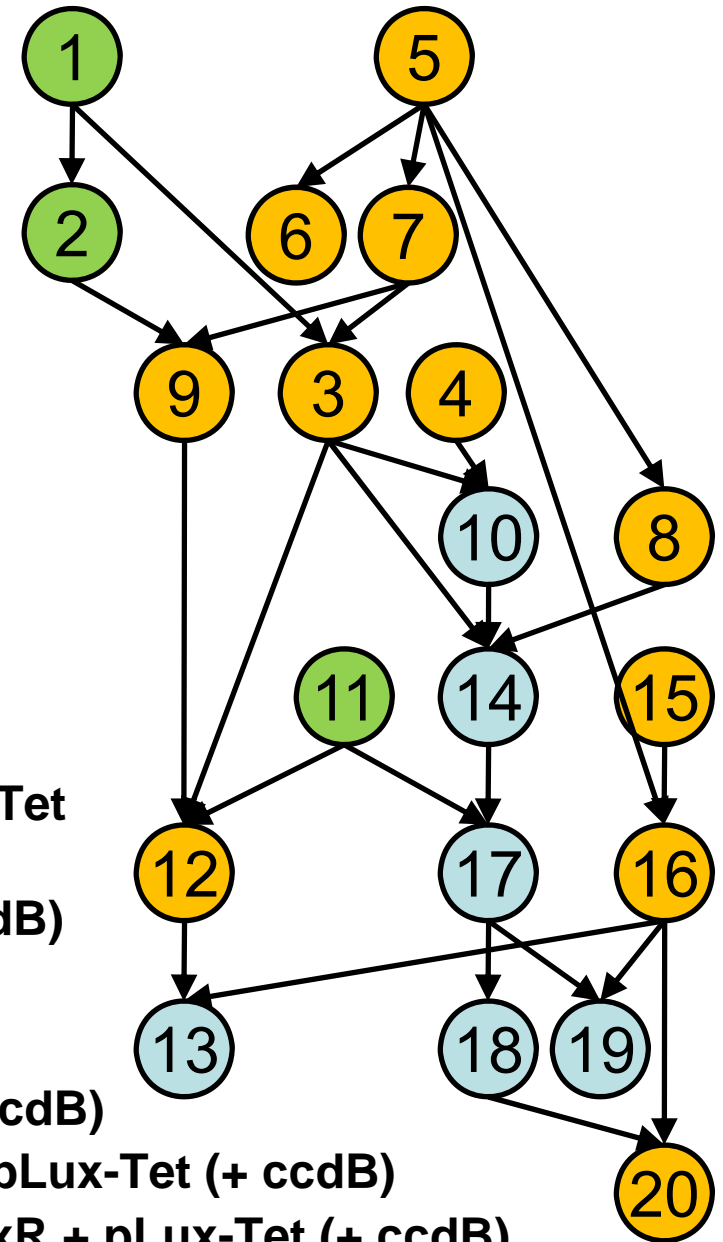
Quorum Sensing

Selection Function

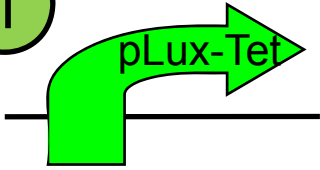


1. pLux-Tet
2. pLux-Tet + GFP
3. pCon + luxR + pLux-Tet
4. ccdB × 2
5. pCon × 8
6. pCon × 8 + GFP
7. pCon + luxR
8. pCon × 7 + luxI (AHL detection by 9 or GC-MS ?)
9. pCon + luxR + pLux-Tet + GFP (AHL)
10. pCon + luxR + pLux-Tet + ccdB × 2 (AHL)
11. tetR × 2
12. tetR × 2 + pCon + luxR + pLux-Tet (+ GFP)
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)

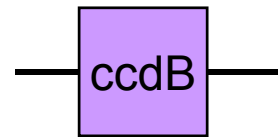
Waiting
Working
Done
Sequenced



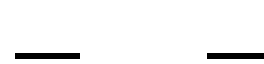
1



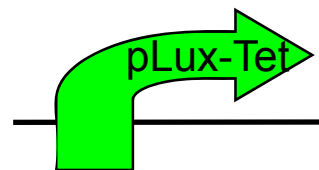
K176000 X+P with nicks
Sequence OK



P1010 in pSB1A3 in DB 3.1
Length OK

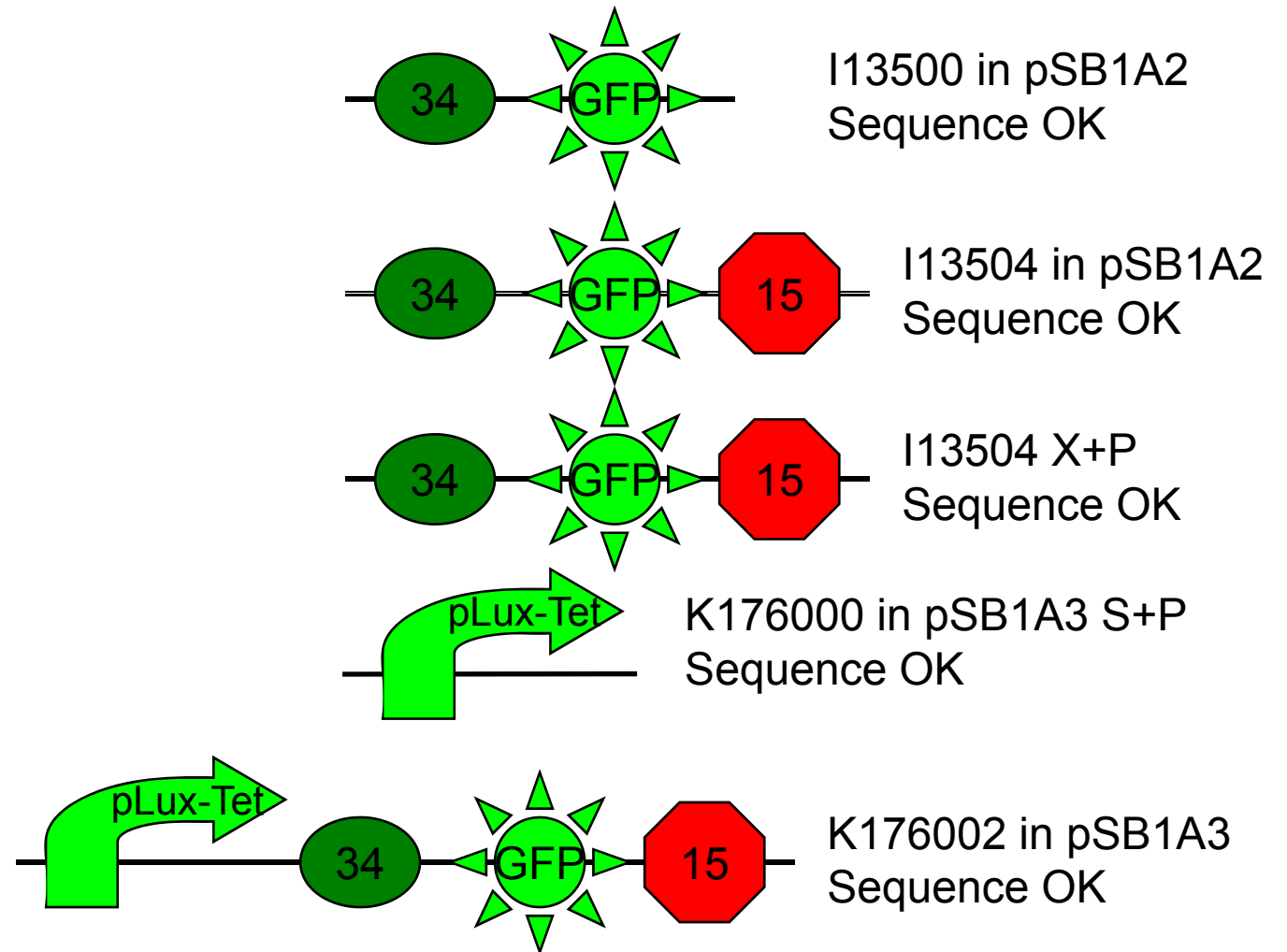


pSB1A3 X+P
Length OK



K176000 in pSB1A3
Sequence OK

2

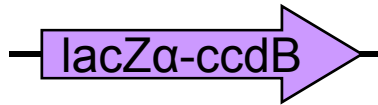


4



K145151 in pSB1A2 in DB 3.1

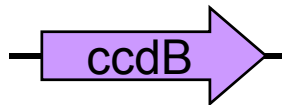
Sequence OK
K176003 Fragment Length OK



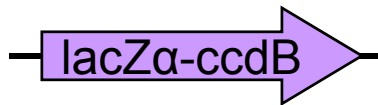
B0034 in pSB1A2
Sequence OK



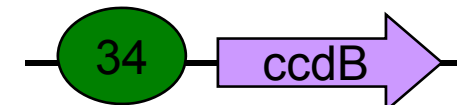
B0034 in pSB1A2 S+P
Length OK



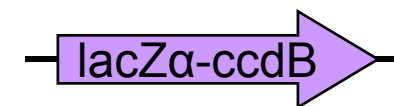
K145151 X+P
Length OK



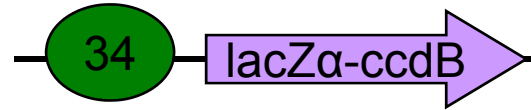
K176003 X+P
Length OK



K176010 in pSB1A2 in DB 3.1
Sequencing



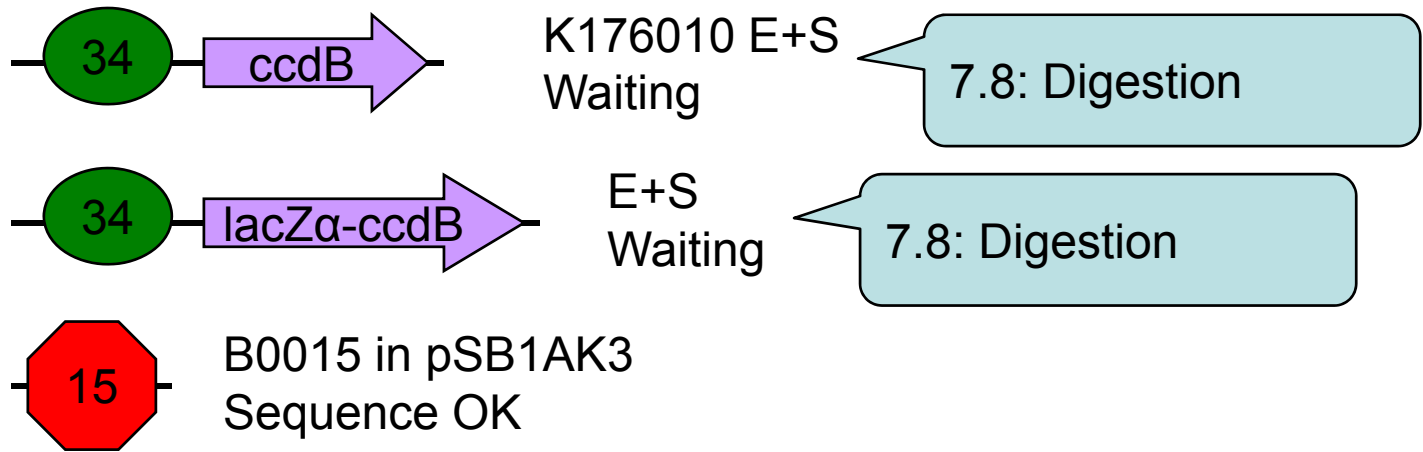
K176003 in pSB1A3 in DB 3.1
Sequence OK



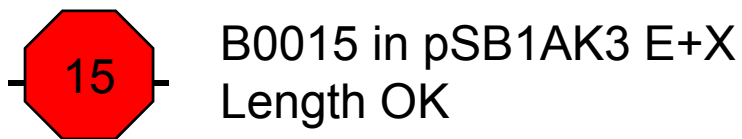
in pSB1A2 in DB 3.1
Ligation

7.7: Ligation;
Colony PCR
7.8: Mini-Prep;
Sequencing
7.11: Sequence OK

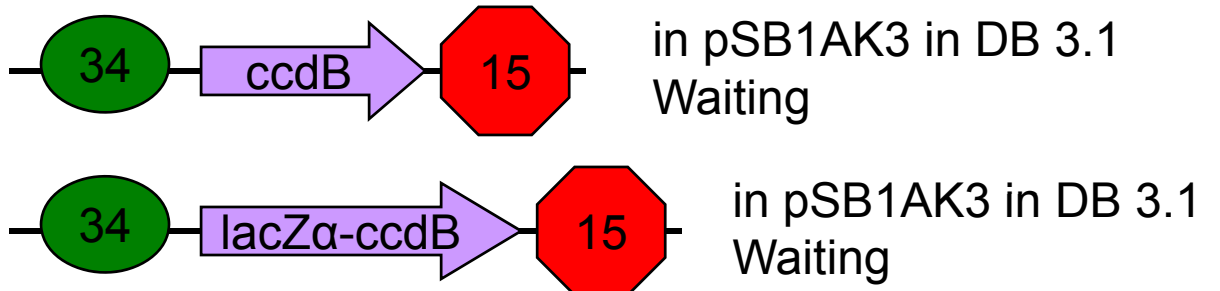
7.7: Ligation;
Colony PCR
7.8: Mini-Prep;
Sequencing
7.11: Sequence OK



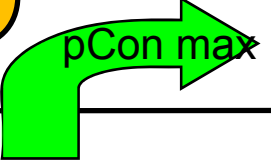
7.8: Ligation
7.9: Colony PCR;
Mini-Prep
7.10: Sequencing
7.13: Sequence OK

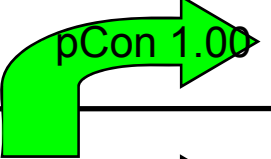


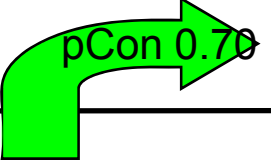
7.8: Ligation
7.9: Colony PCR;
Mini-Prep
7.10: Sequencing
7.13: Sequence OK

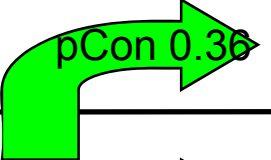


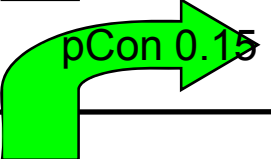
5

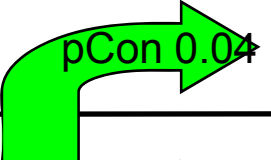
 pCon max
J23119 in pSB1A2
Sequence OK

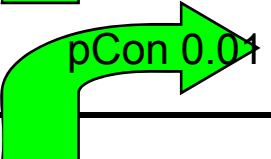
 pCon 1.00
J23100 in J61002
Sequence ?

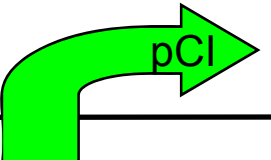
 pCon 0.70
J23101 in J61002
Sequence OK

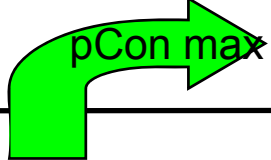
 pCon 0.36
K176009 in J61002
Sequence OK

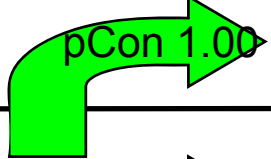
 pCon 0.15
K176008 in J61002
Sequence OK

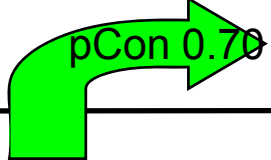
 pCon 0.04
J23109 in J61002
Sequence OK

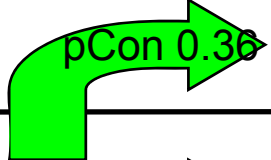
 pCon 0.04
J23103 in J61002
Sequence OK

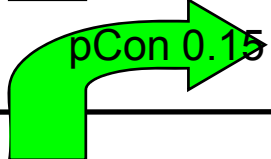
 pCl
R0051 in pSB1A2
Sequence ?

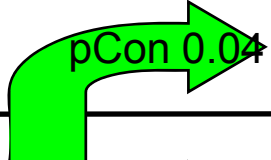
 pCon max
J23119 X+P
Sequence OK

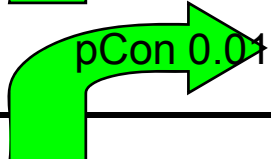
 pCon 1.00
J23100-J61002SF X+P
Sequence ?

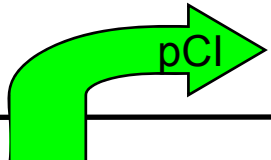
 pCon 0.70
J23101-J61002SF X+P
Sequence OK

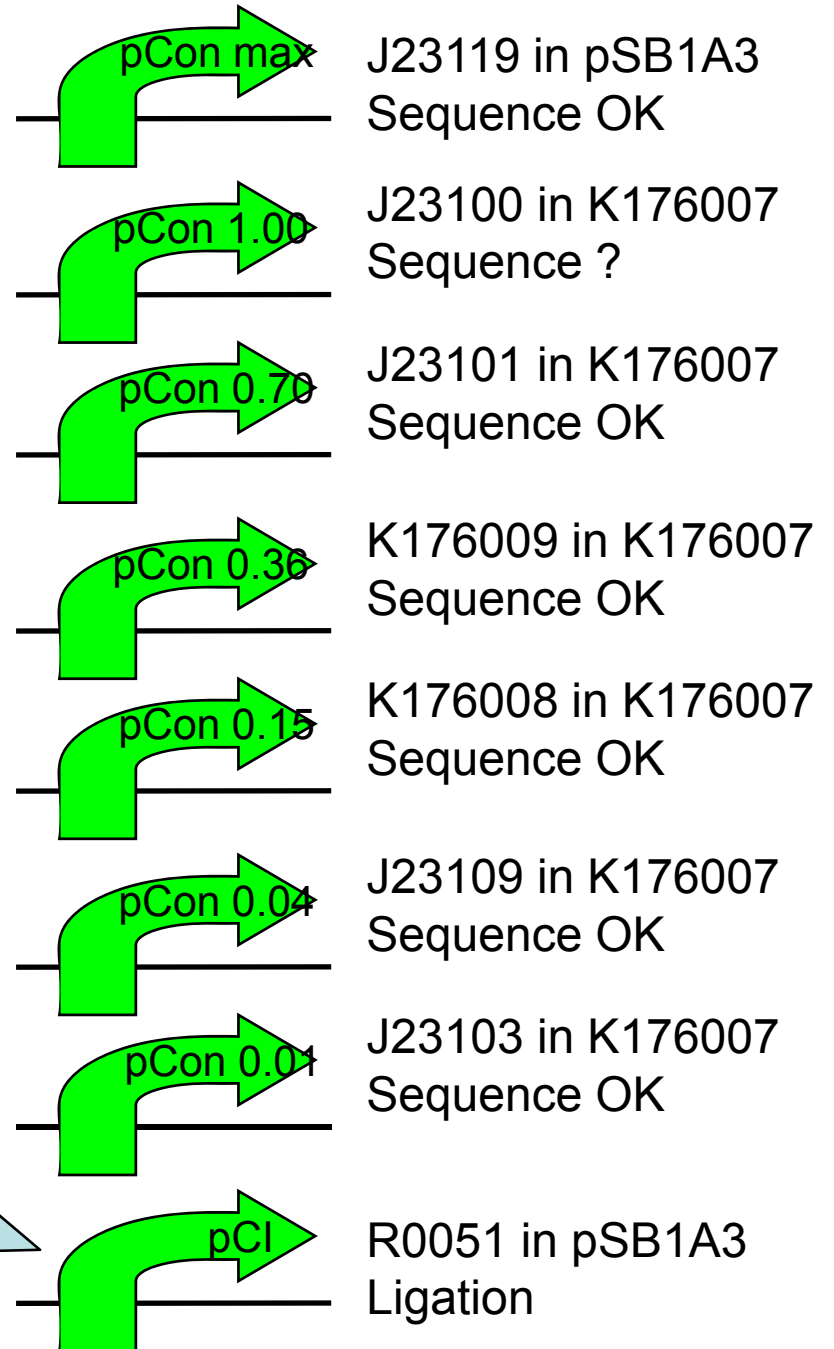
 pCon 0.36
K176009-J61002SF X+P
Sequence OK

 pCon 0.15
K176008-J61002SF X+P
Sequence OK

 pCon 0.04
J23109-J61002SF X+P
Sequence OK

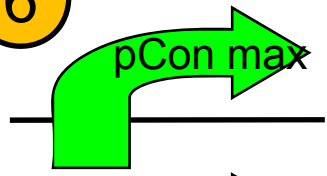
 pCon 0.04
J23103-J61002SF X+P
Sequence OK

 pCl
R0051 X+P
Length ?

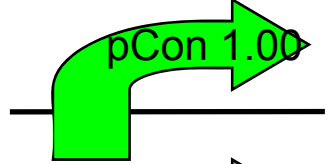


7.7: Ligation
7.8: Colony PCR;
Mini-Prep
7.9: Sequencing
7.12: Sequence OK

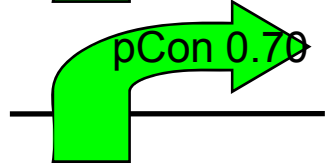
6



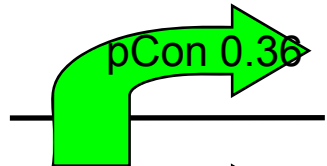
J23119 in pSB1A3 S+P
Length OK



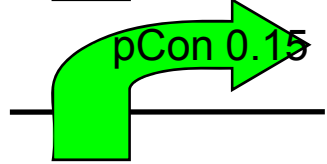
J23100 in K176007 S+P
Digestion



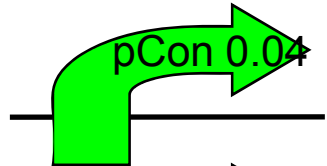
J23101 in K176007 S+P
Length OK



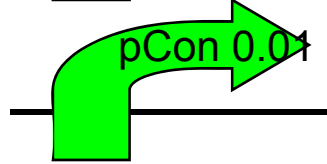
K176009 in K176007 S+P
Length OK



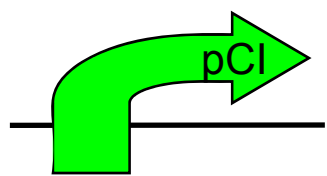
K176008 in K176007 S+P
Length OK



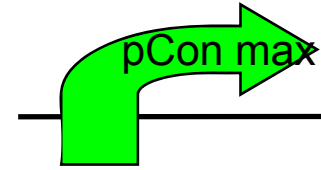
J23109 in K176007 S+P
Length OK



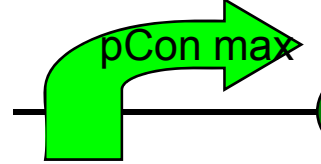
J23103 in K176007 S+P
Length OK



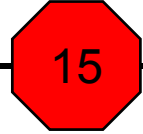
R0051 in pSB1A3 S+P
Waiting



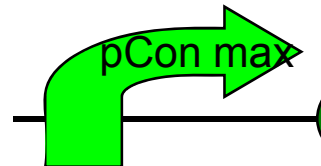
J23119 in pSB1A2 S+P
Sequence OK



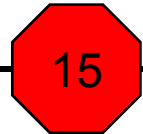
34



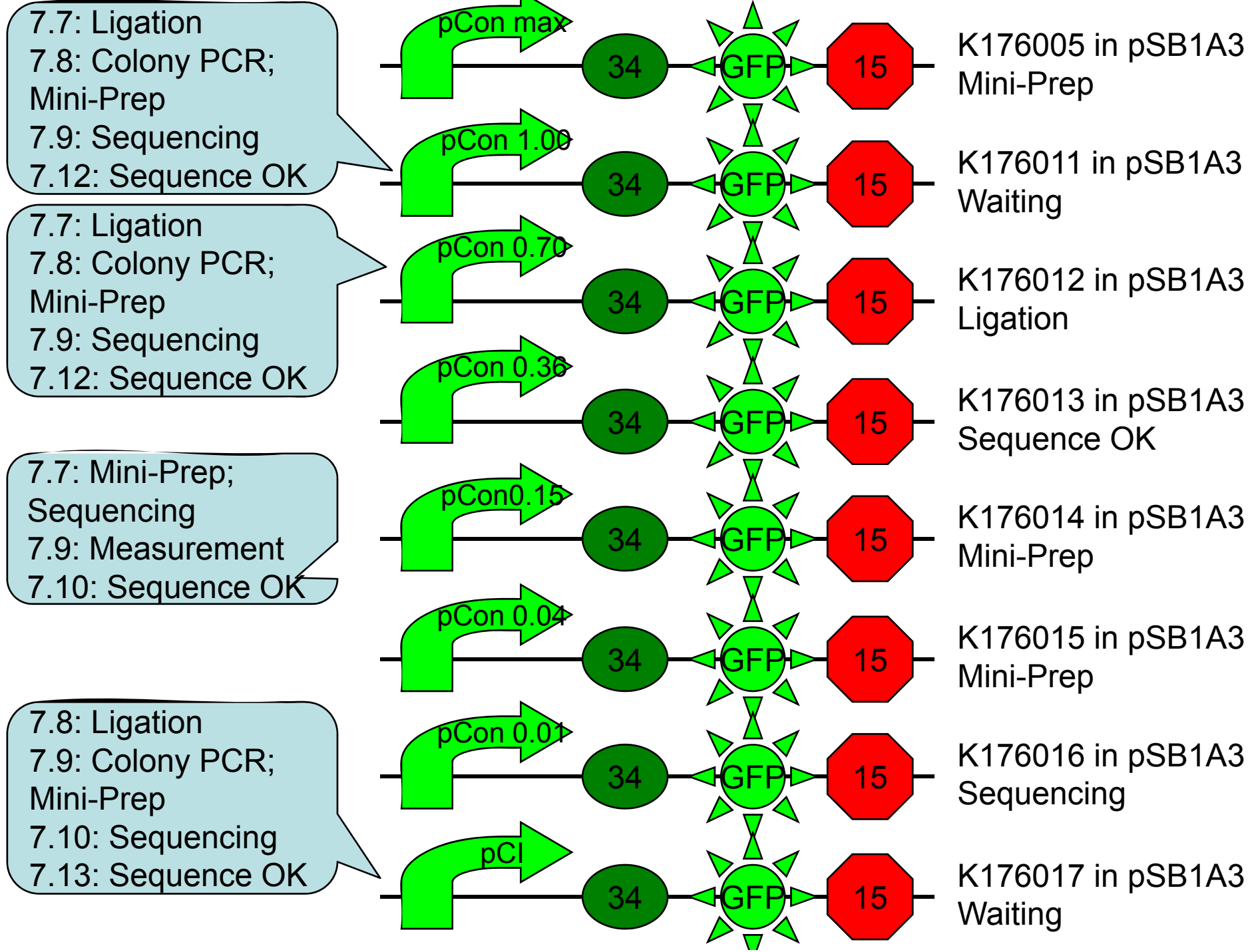
K176005 in pSB1A2
Sequence OK



34



K176005 X+P
Length OK

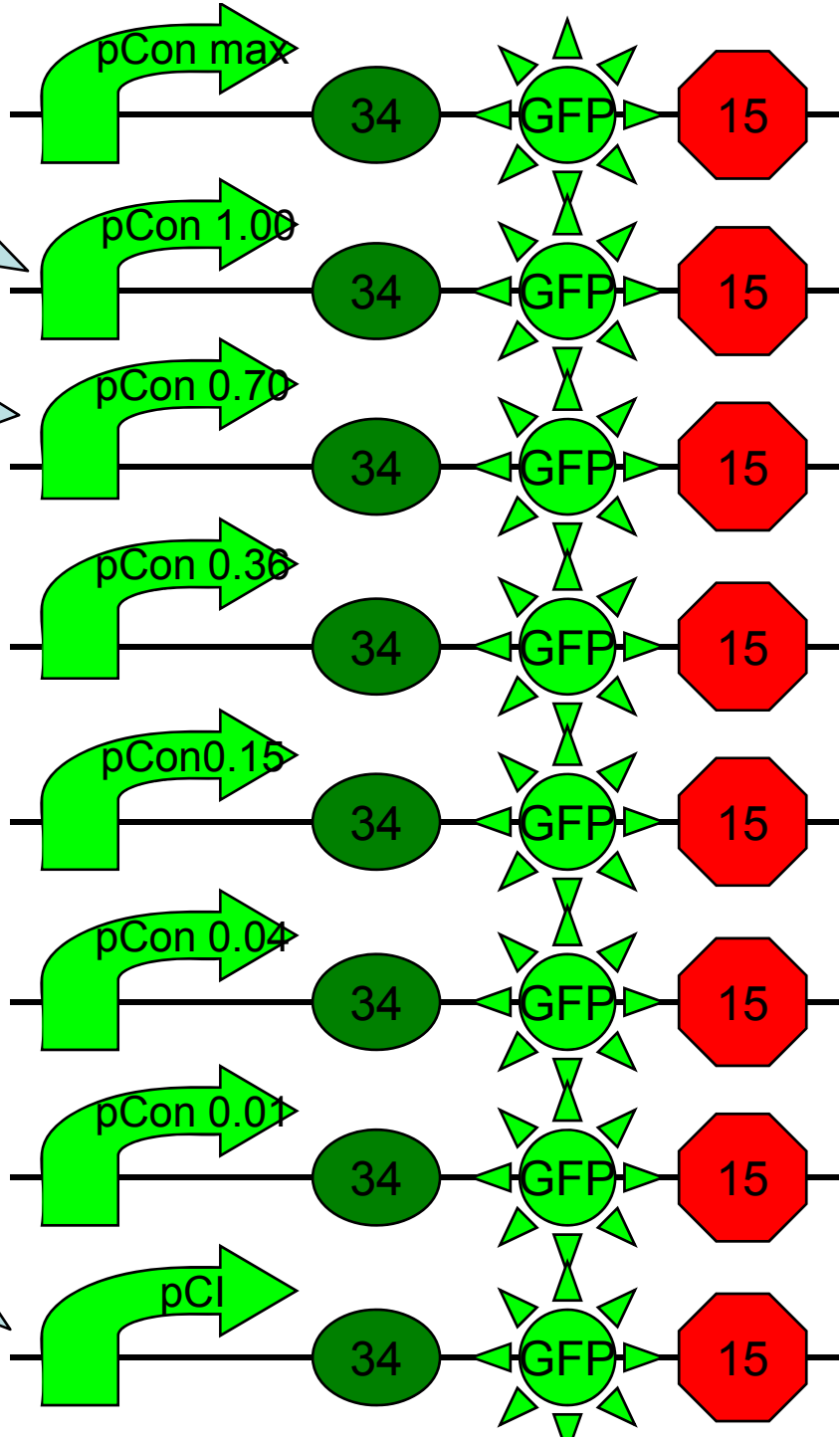


7.7: Ligation
7.8: Colony PCR; Mini-Prep
7.9: Sequencing
7.12: Sequence OK

7.7: Ligation
7.8: Colony PCR; Mini-Prep
7.9: Sequencing
7.12: Sequence OK

7.7: Mini-Prep; Sequencing
7.9: Measurement
7.10: Sequence OK

7.8: Ligation
7.9: Colony PCR; Mini-Prep
7.10: Sequencing
7.13: Sequence OK



K176005 in pSB1A3
Mini-Prep

K176011 in pSB1A3
Waiting

K176012 in pSB1A3
Ligation

K176013 in pSB1A3
Sequence OK

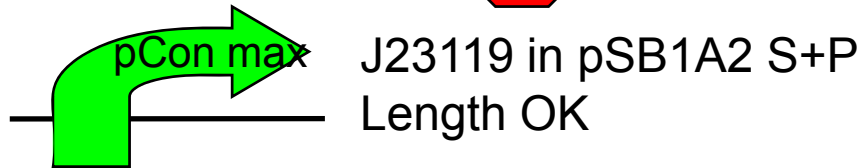
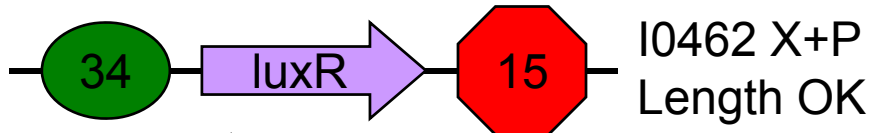
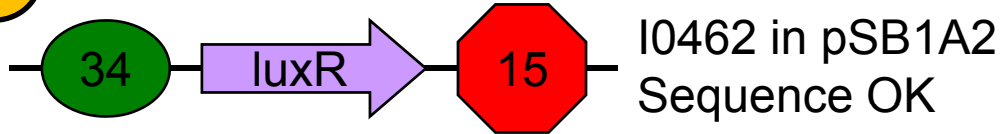
K176014 in pSB1A3
Mini-Prep

K176015 in pSB1A3
Mini-Prep

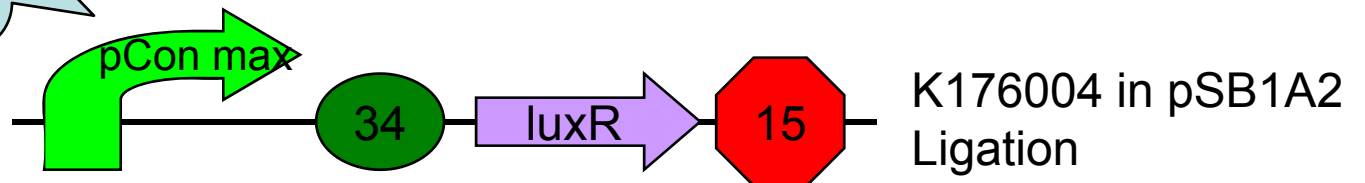
K176016 in pSB1A3
Sequencing

K176017 in pSB1A3
Waiting

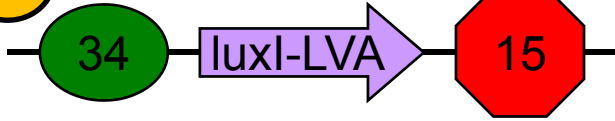
7



7.7: Ligation
7.8: Colony PCR;
Mini-Prep
7.9: Sequencing
7.12: Sequence OK



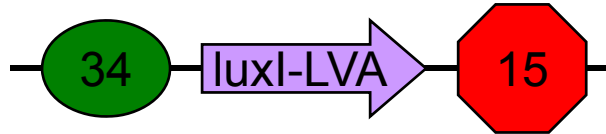
8



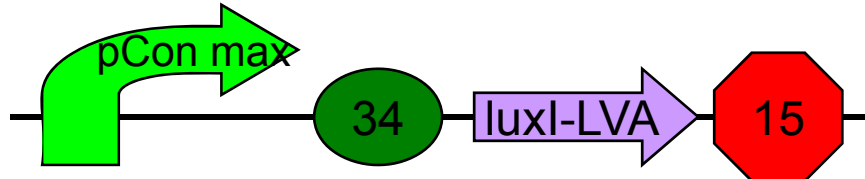
K082014 X+P
Length OK

7.7: Mini-Prep
7.8: Digestion

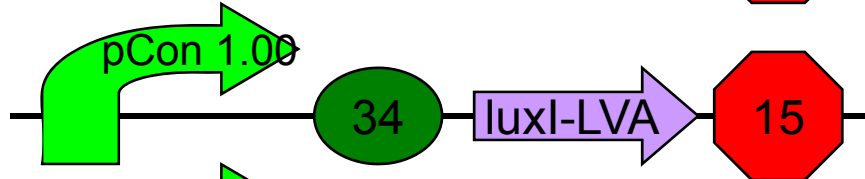
7.8: Ligation
7.9: Colony PCR;
Mini-Prep
7.10: Sequencing
7.11: Measurement
7.13: Sequence OK



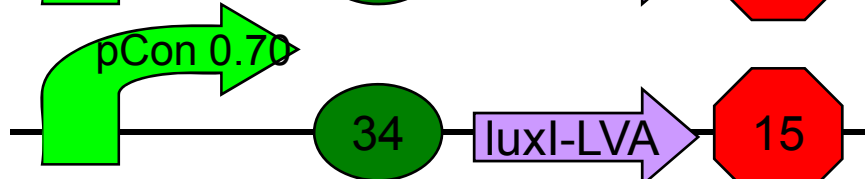
K082014 in pSB1AK3
Sequence OK



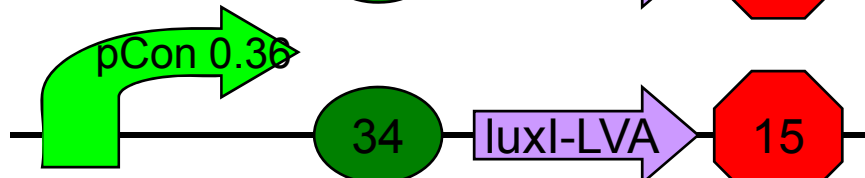
K176018 in
pSB1A3
Ligation



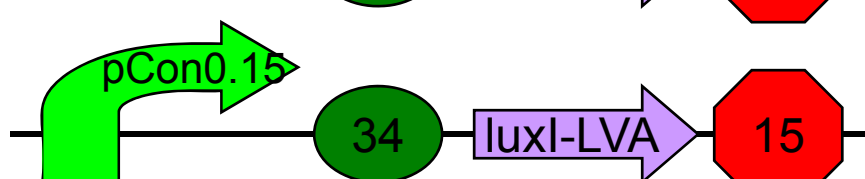
K176019 in
pSB1A3
Ligation



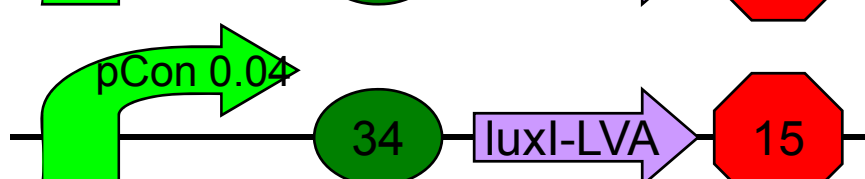
K176020 in
pSB1A3
Ligation



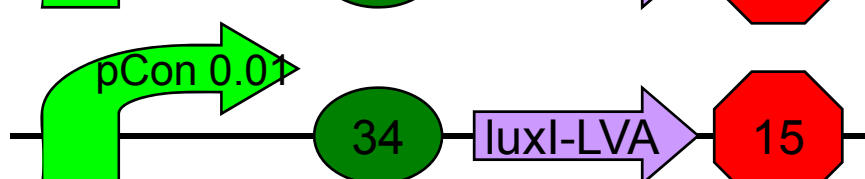
K176021 in
pSB1A3
Ligation



K176022 in
pSB1A3
Ligation

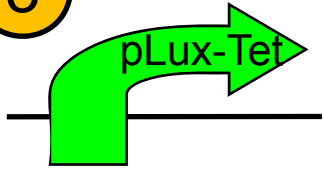


K176023 in
pSB1A3
Ligation



K176024 in
pSB1A3
Waiting

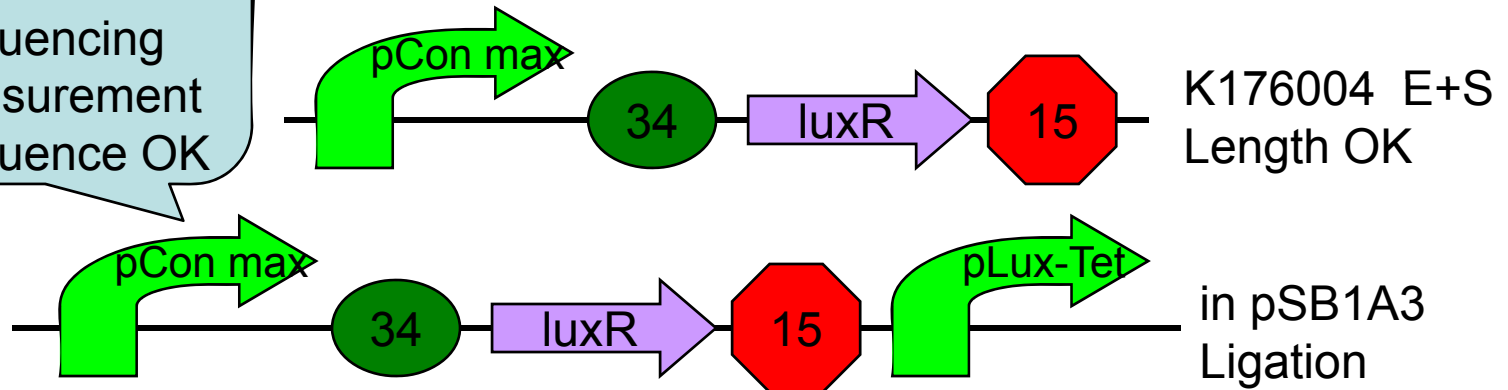
3

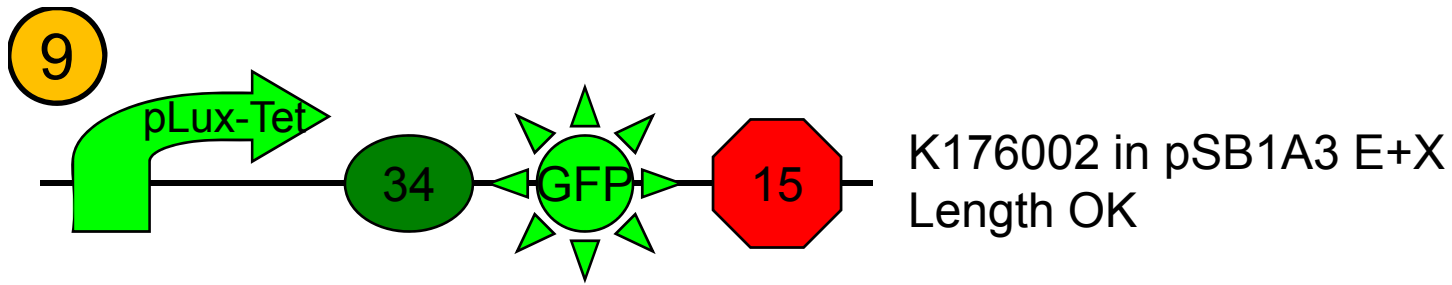


K176000 in pSB1A3 E+X
Length OK

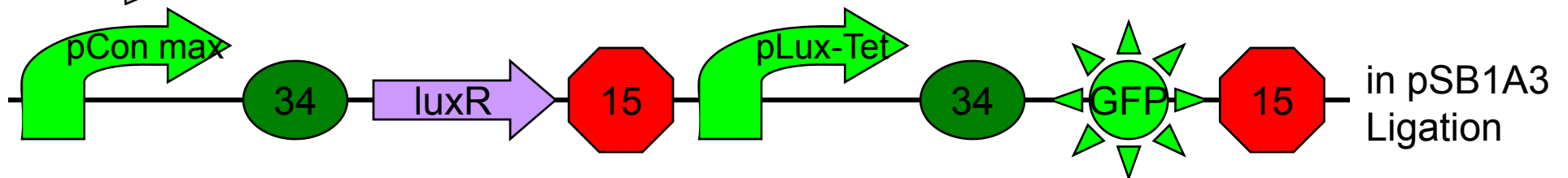
7.8: Ligation
7.9: Colony PCR;
Mini-Prep
7.10: Sequencing
7.11: Measurement
7.13: Sequence OK

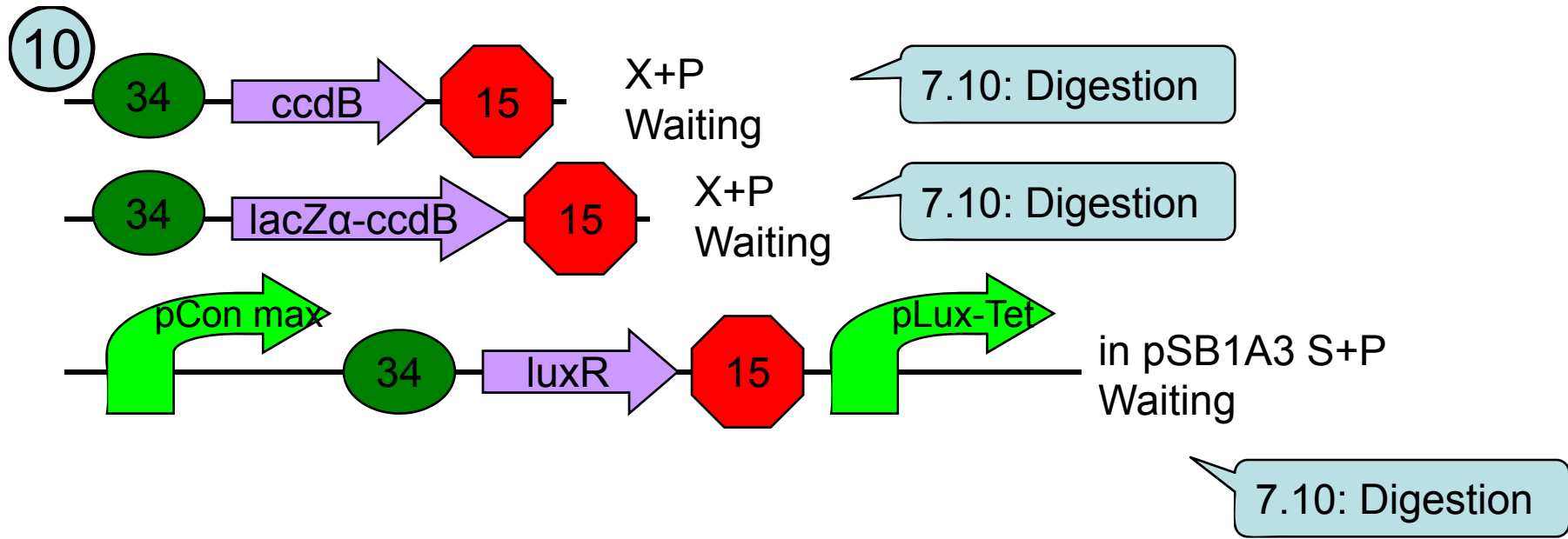
7.8: Digestion

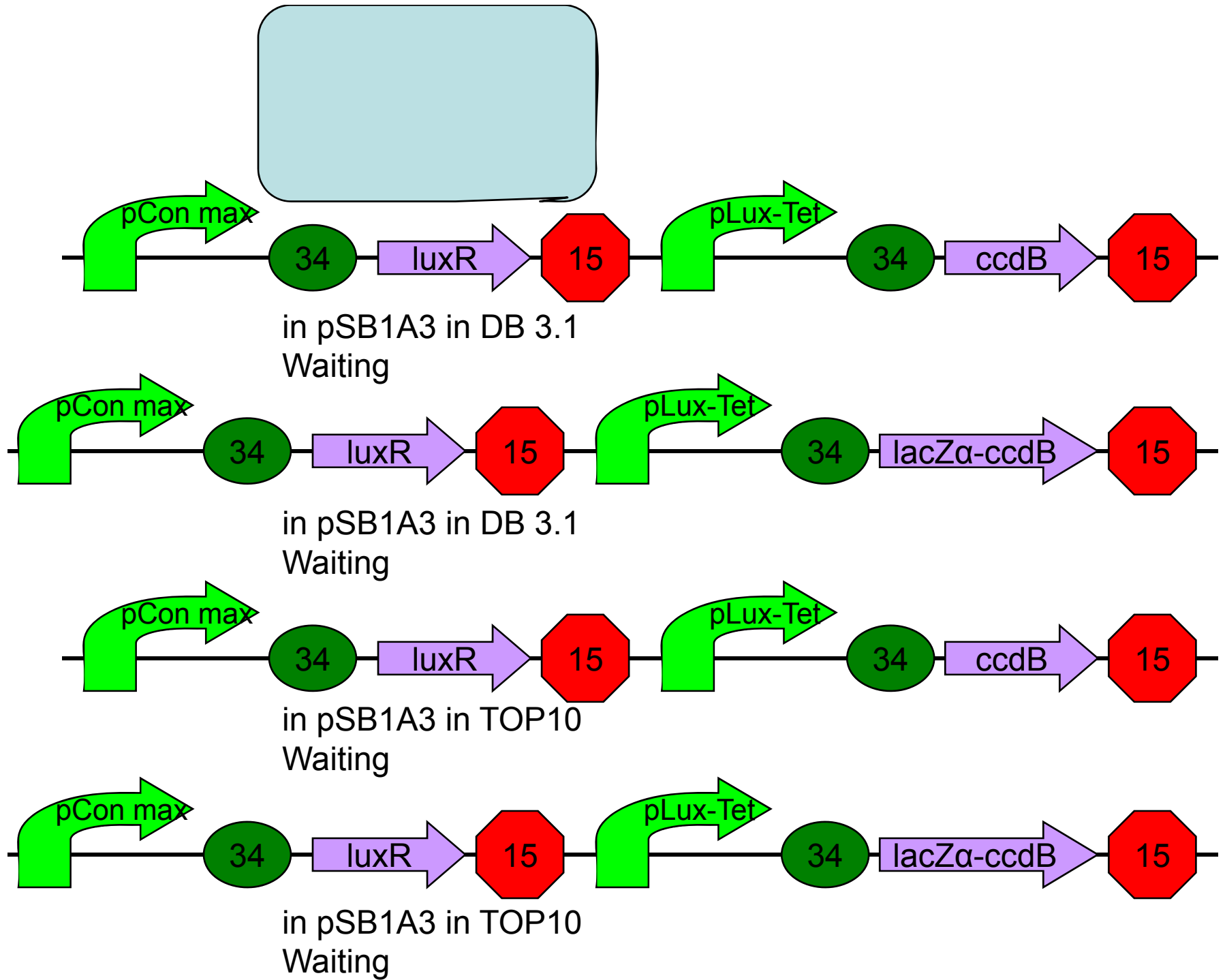




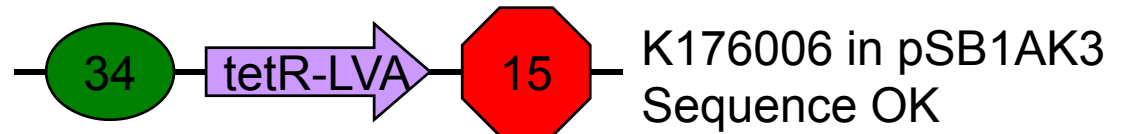
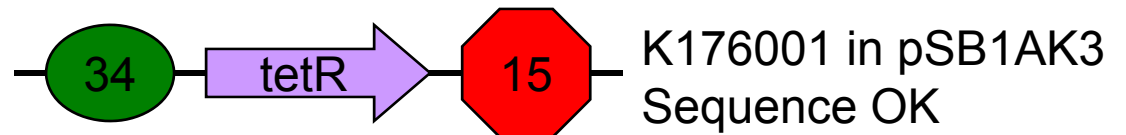
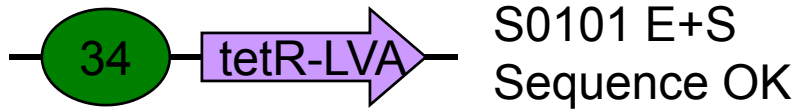
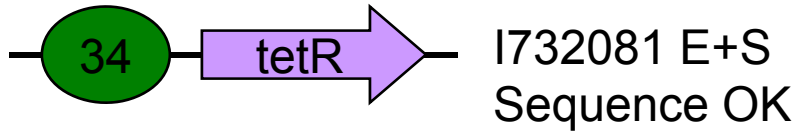
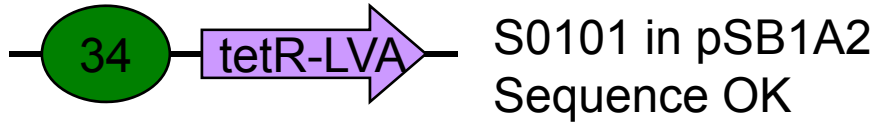
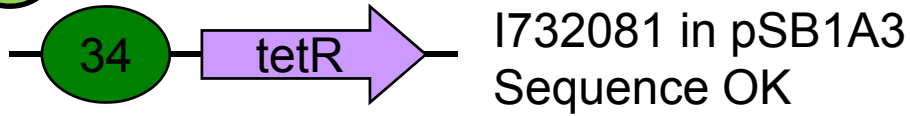
7.8: Ligation
7.9: Colony PCR;
Primer Design;
Mini-Prep
7.10: Sequencing
7.11: Measurement
7.13: Sequence OK



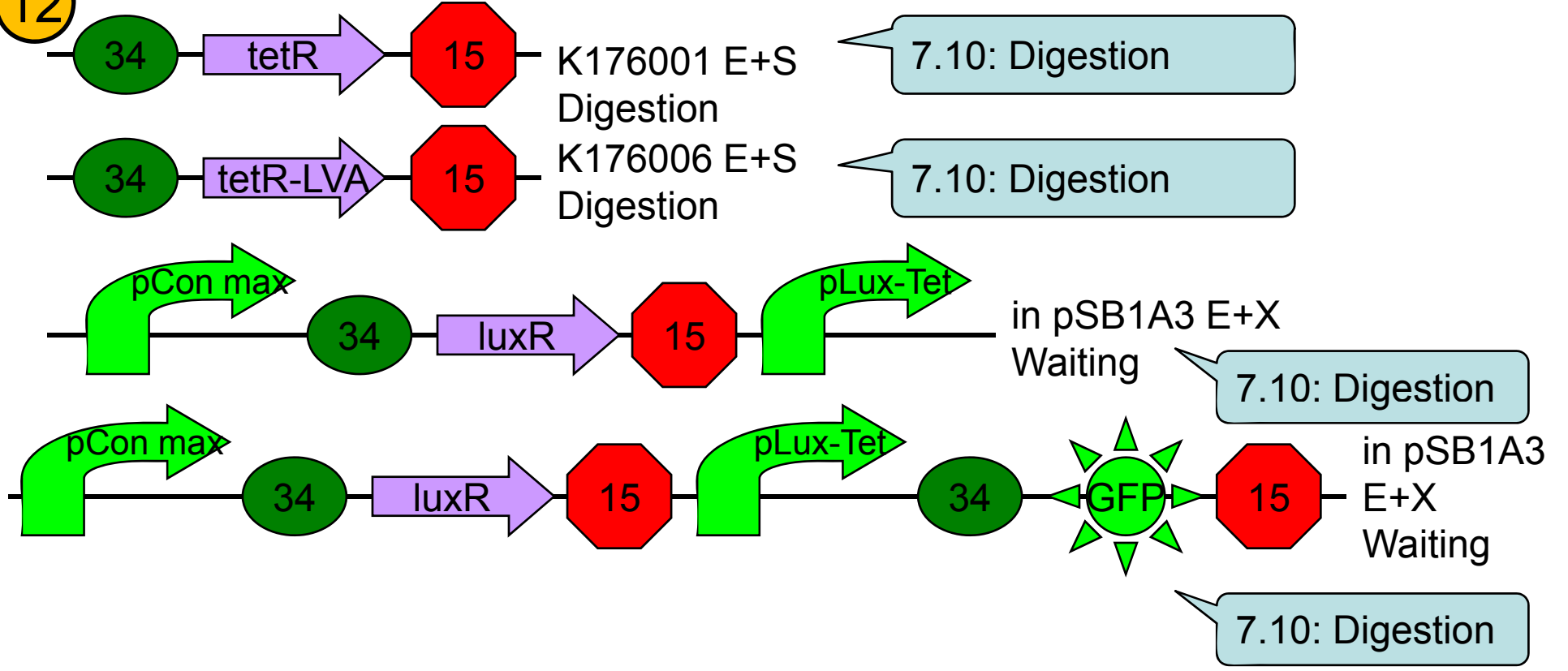


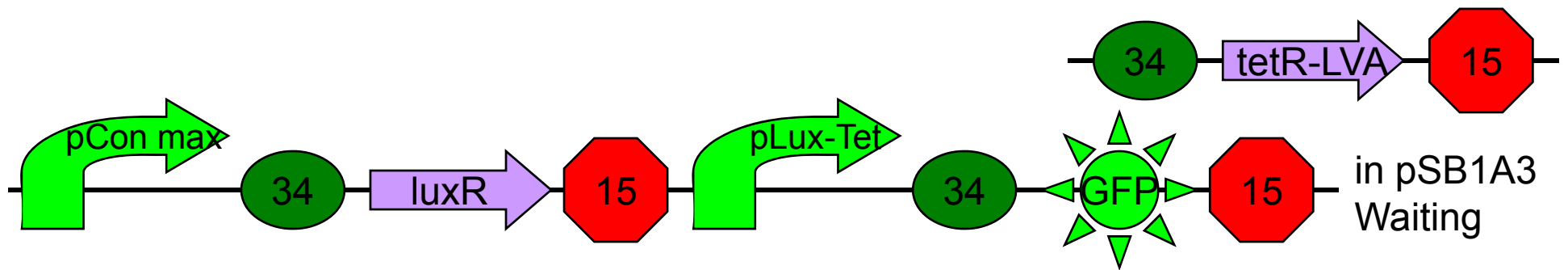
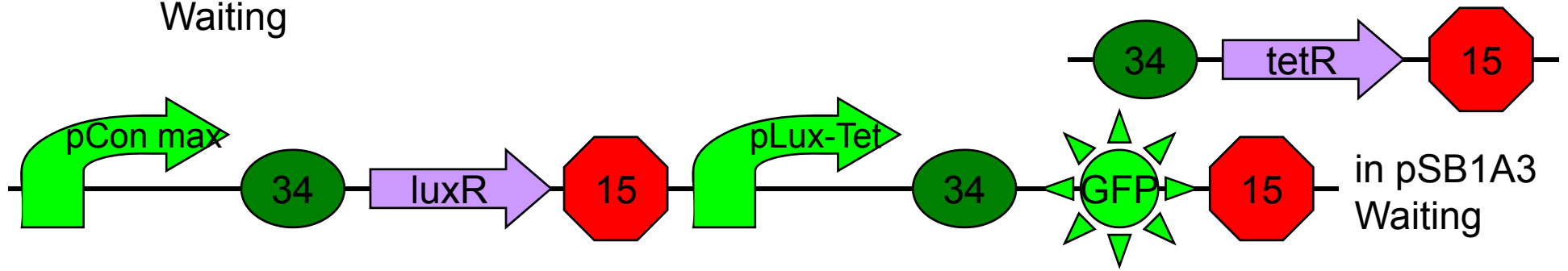
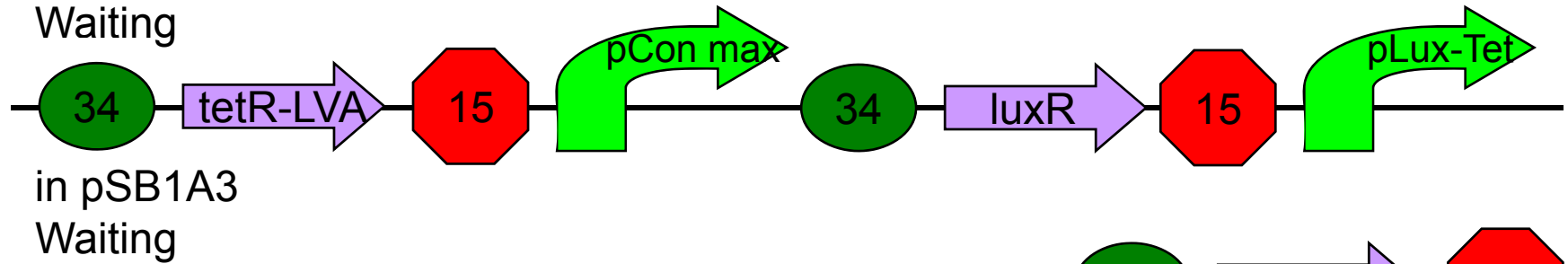
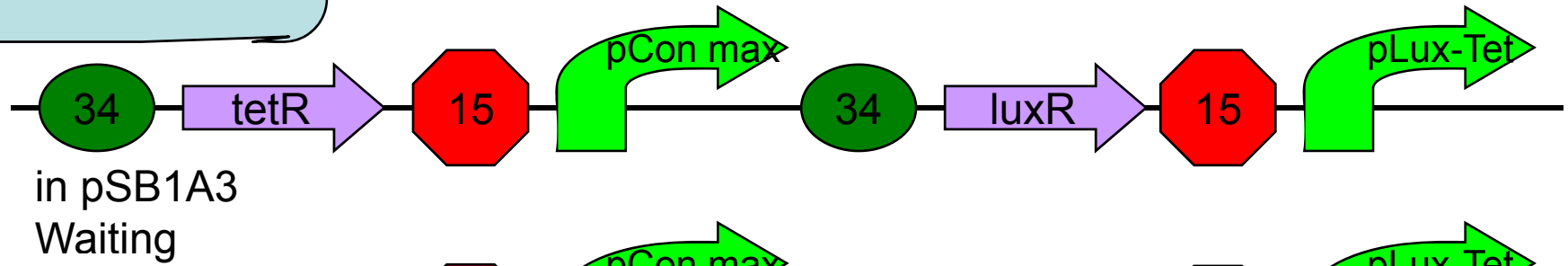
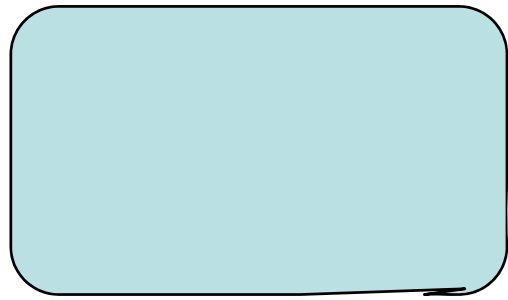


11

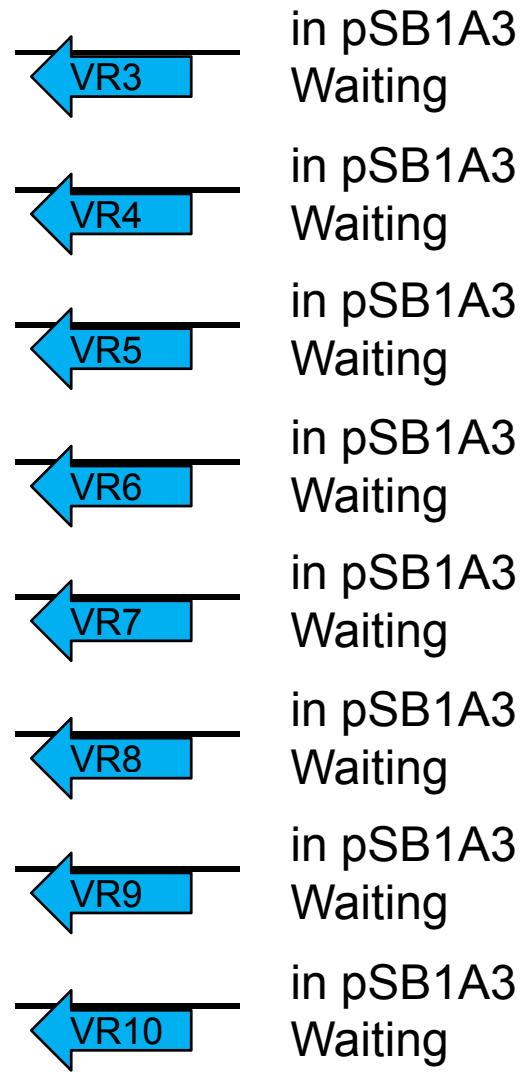
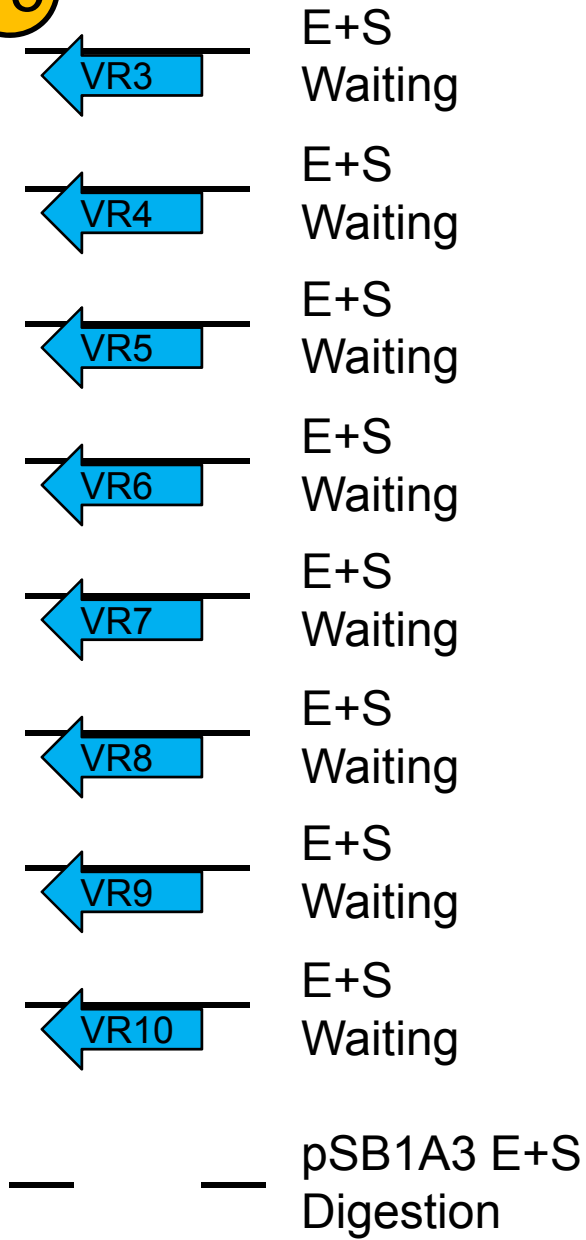


12

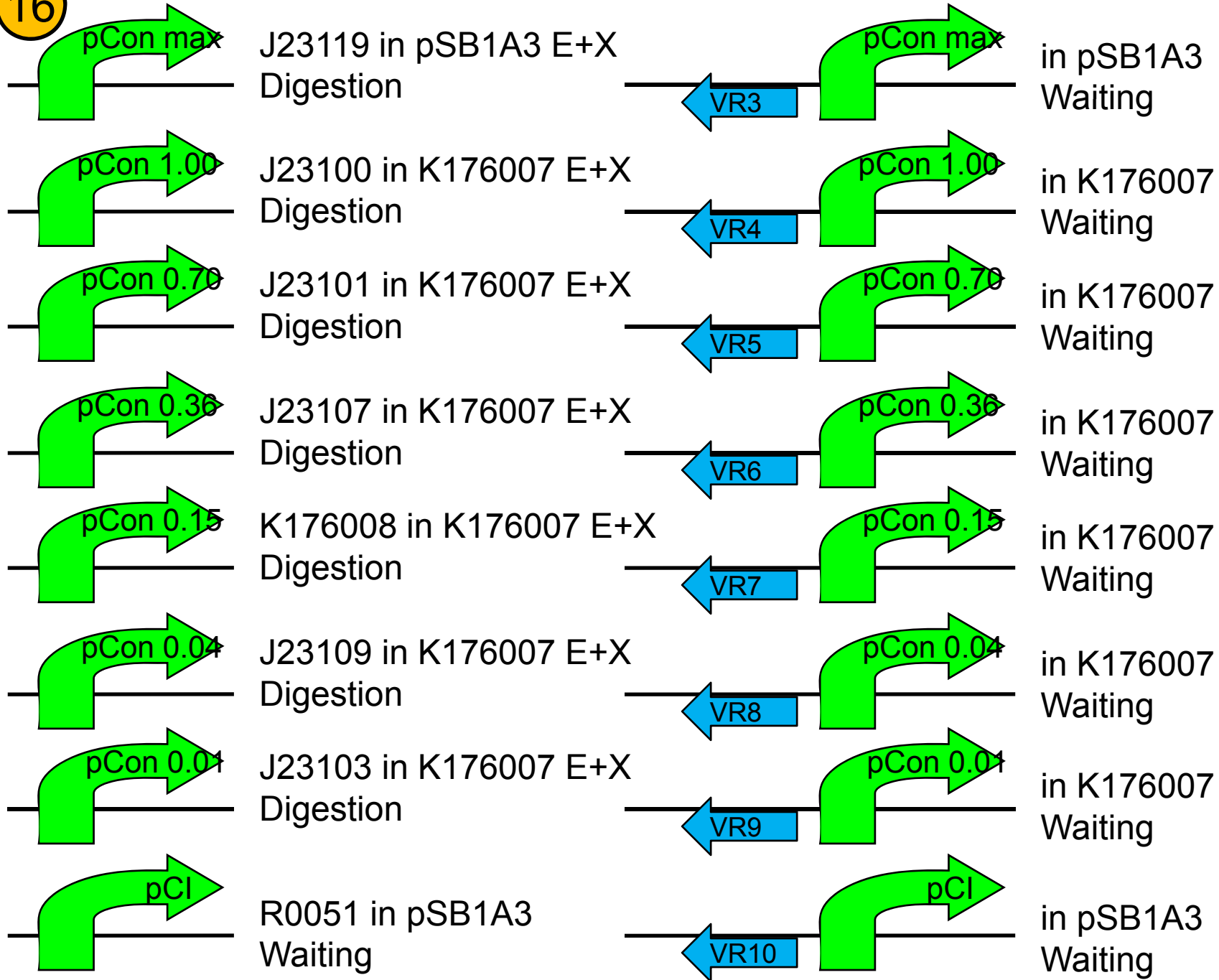




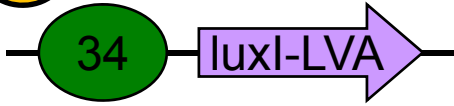
15



16



20



C0261 in pSB1A2
Sequence OK