

E.ADEM v0.0.5.3

2009.8.29

2009.5.3

117 days

2009.8.29

61 days

2009.10.30

Calendar of Events

IGEM 2009 Calendar of Events

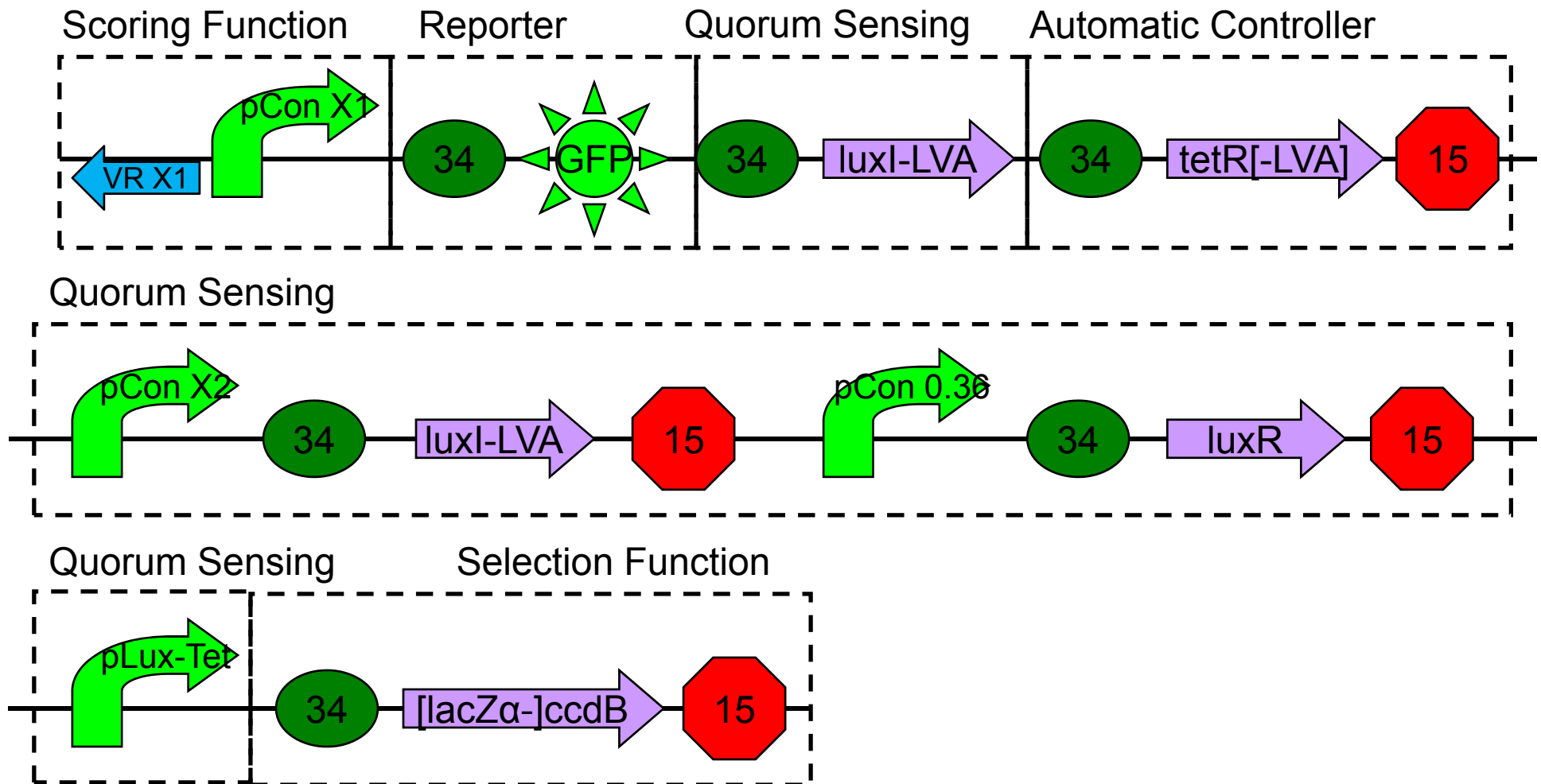
Note: Dates in grey have not been finalized yet. Make sure to check the calendar periodically for any changes!

- 19 February** IGEM 2009 registration opens
- 31 March** IGEM 2008 registration closes; Team registration fee due
- 13 May** DNA Distribution sent to teams (**target deadline; subject to change**)
- 16/17 May** [iGEM Workshop, MIT, USA](#)
- 1 June** [Visa invitation letter](#) requests due
- 20/21 June** [iGEM Workshop, Europe](#)
- 27/28 June** [iGEM Workshop, Asia](#)
- 15 June** Preliminary team rosters due
- 1 August** Team project descriptions due
- 18 September** [Jamboree attendance fee](#) due
- 18 September** [Request for variance](#) due (notice and description of any use of non-standard parts or devices schemes due)
 - [Track selection](#) due
 - [Project abstracts](#) due
 - [Team rosters](#) due
- 21 October** Project and part documentation due, including documentation for all medal criteria
 - BioBrick Part DNA needs to be received by the Registry
 - [Judging form](#) due
 - Wiki FREEZE at 11:59pm, EST
- 30 Oct - 2 Nov** iGEM Competition Jamboree, MIT, USA

Outline

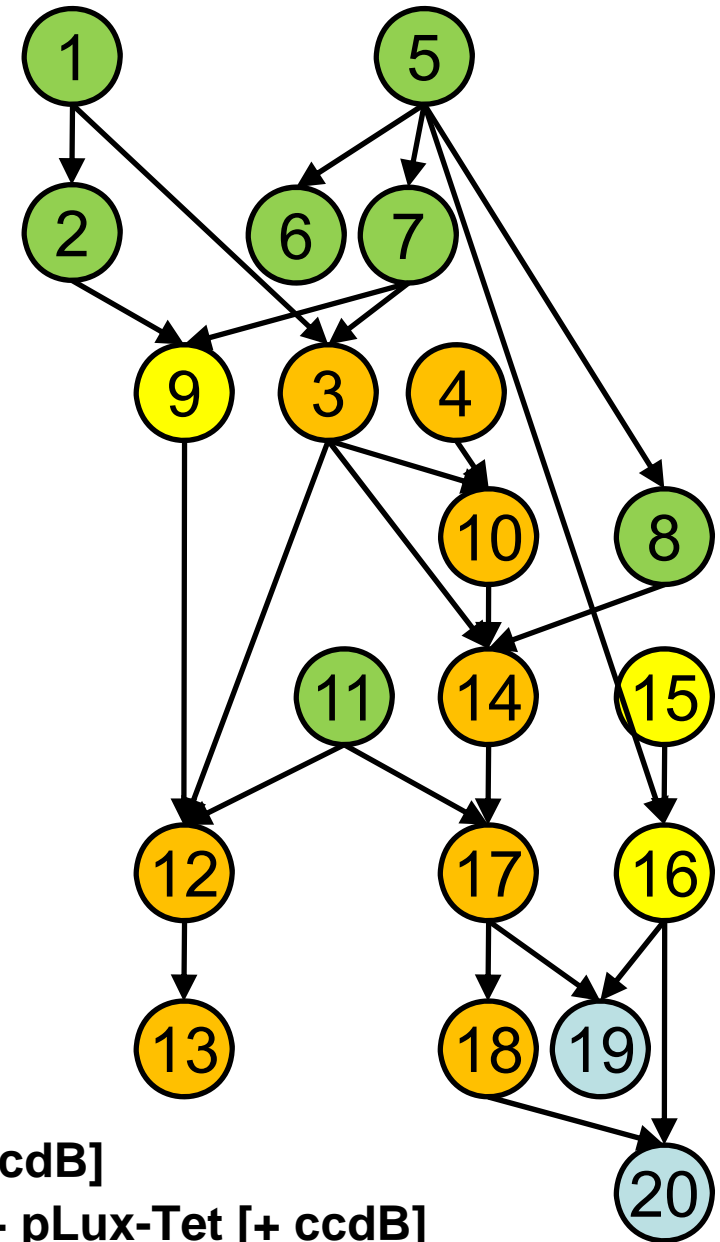
- Assembly
- Measurement
 - General Conditions
 - GFP
 - AHL
 - CcdB
 - LacZ α
- Wiki
 - Team project description
 - Notebook
- Instructional Videos

Assembly



1. pLux-Tet
2. pLux-Tet + GFP
3. pCon + luxR × 4 + pLux-Tet
4. ccdB × 4

Waiting
Working
Done
Sequenced



5. pCon × 8

6. pCon × 8 + GFP

7. pCon + luxR

8. pCon × 7 + luxI (AHL detection by 9)

9. pCon + luxR × 4 + pLux-Tet + GFP (AHL)

10. pCon + luxR × 4 + pLux-Tet + ccdB × 4 (AHL)

11. tetR × 2

12. tetR × 2 + pCon × 2 + luxR + pLux-Tet [+ GFP]

13. pCon × 4 + tetR × 2 + pCon × 2 + luxR + pLux-Tet
[+ GFP] (AHL/aTc)

14. [pCon × 7 +] luxI + pCon × 2 + luxR + pLux-Tet
[+ ccdB × 2]

15. VR × 10

16. (VR + pCon) × 7

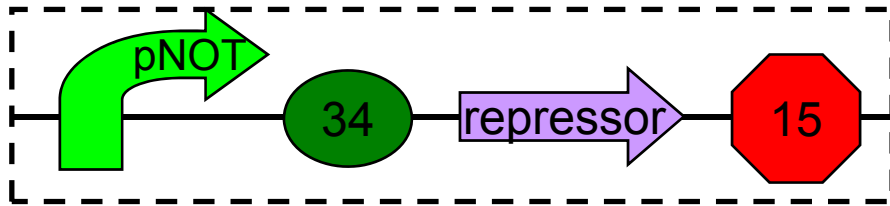
17. tetR + pCon + luxI + pCon + luxR + pLux-Tet [+ ccdB]

18. [GFP +] luxI + tetR + pCon + luxI + pCon + luxR + pLux-Tet [+ ccdB]

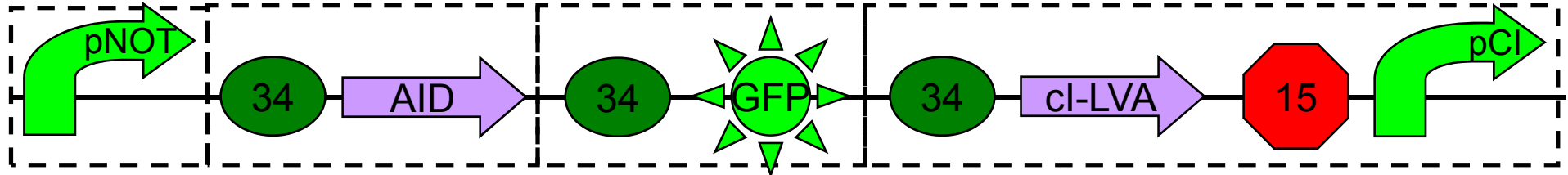
19. (VR + pCon) × 6 + tetR + pCon + luxI + pCon + luxR + pLux-Tet [+ ccdB]

20. (VR + pCon) × 6 + GFP + luxI + tetR + pCon + luxI + pCon + luxR + pLux-Tet [+ ccdB]

Evolution Object



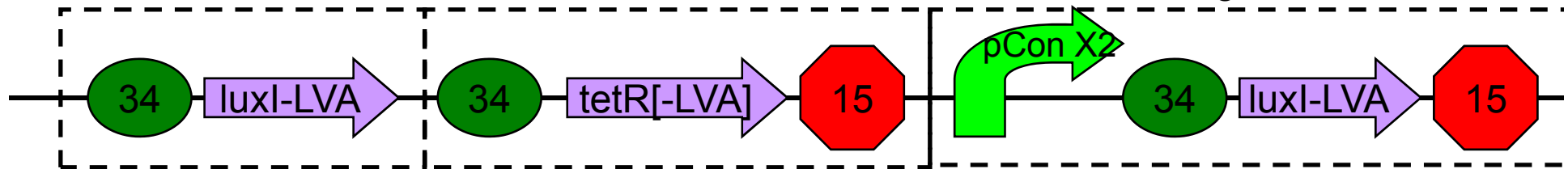
Scoring Function



Quorum Sensing

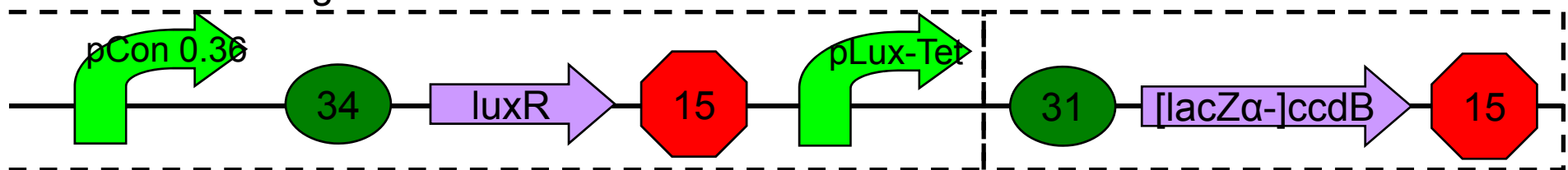
Automatic Controller

Quorum Sensing

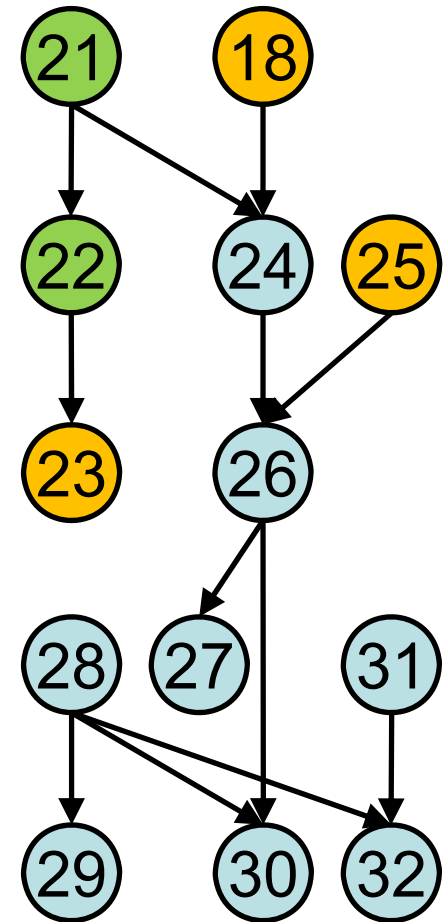


Quorum Sensing

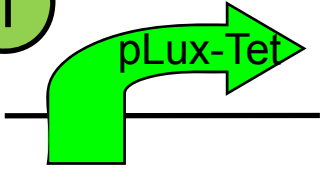
Selection Function



- 21. *cl* + p*Cl*
- 22. *cl* + p*Cl* + GFP
- 23. (VR + pCon) × 7 + *cl* + p*Cl* + GFP
- 24. *cl* + p*Cl* + *luxI* + *tetR* + pCon + *luxI* + pCon + *luxR* + pLux-Tet [+ *ccdB*]
- 25. AID
- 26. [AID +] GFP + *cl* + p*Cl* + *luxI* + *tetR* + pCon + *luxI* + pCon + *luxR* + pLux-Tet [+ *ccdB*]
- 27. (VR + pCon) × 7 + GFP + *cl* + p*Cl* + *luxI* + *tetR* + pCon + *luxI* + pCon + *luxR* + pLux-Tet [+ *ccdB*]
- 28. pNOT
- 29. pNOT + GFP
- 30. pNOT + [AID +] GFP + *cl* + p*Cl* + *luxI* + *tetR* + pCon + *luxI* + pCon + *luxR* + pLux-Tet [+ *ccdB*]
- 31. repressor
- 32. pNOT + repressor



1



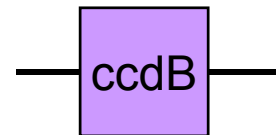
K176000 X+P with nicks
Sequence OK



G00100
Synthesis OK



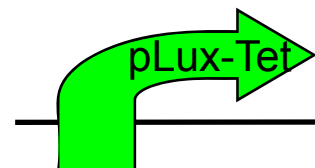
G00101
Synthesis OK



P1010 in pSB1A3 in DB 3.1
Length OK

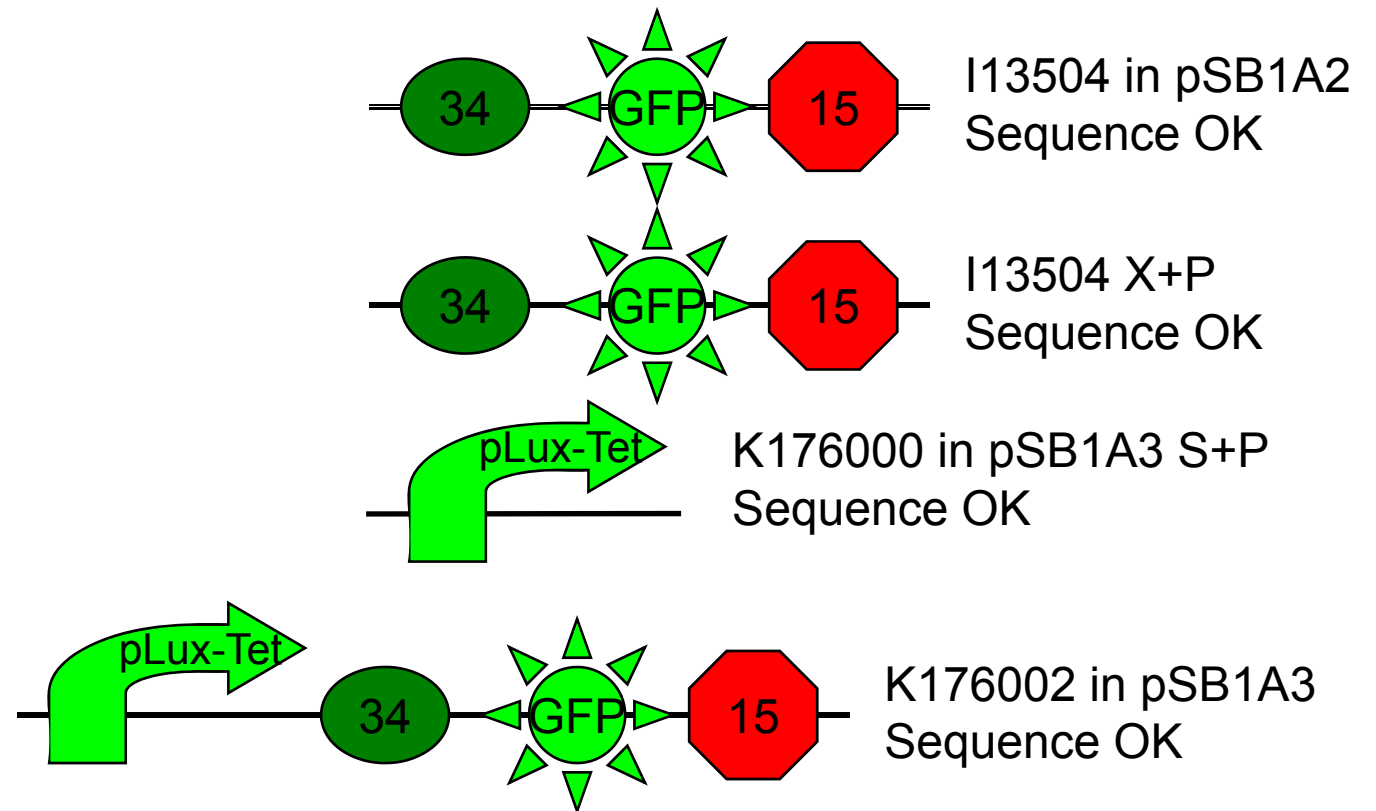


pSB1A3 X+P
Length OK



K176000 in pSB1A3
Sequence OK

2

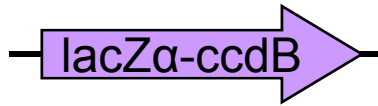


4



K145151 in pSB1A2 in DB3.1

Sequence OK



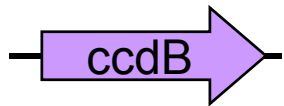
K176003 Fragment Length OK



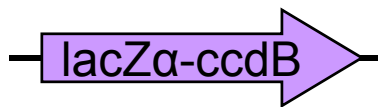
B0034 in pSB1A2 Sequence OK



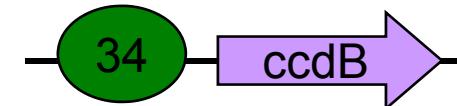
B0034 in pSB1A2 S+P Length OK



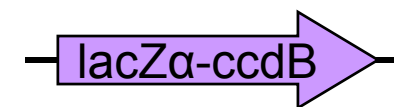
K145151 X+P Length OK



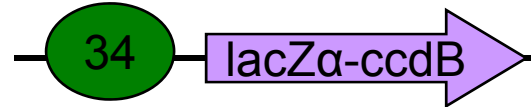
K176003 X+P Length OK



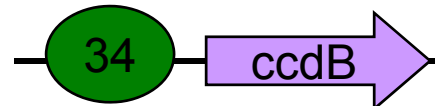
K176010 in pSB1A2 in DB3.1 Ligation



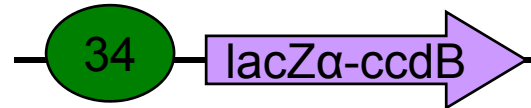
K176003 in pSB1A3 in DB3.1 Sequence OK



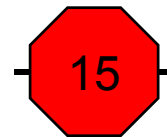
K176027 in pSB1A2 in DB3.1 Sequence OK



K176010 E+S Length OK



K176027 E+S Length OK



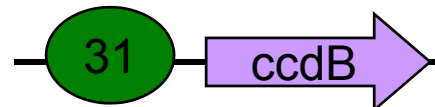
B0015 in pSB1AK3 Sequence OK



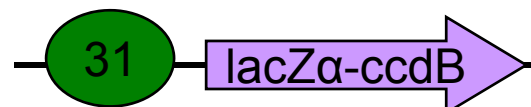
B0031 in pSB1A2 Length OK



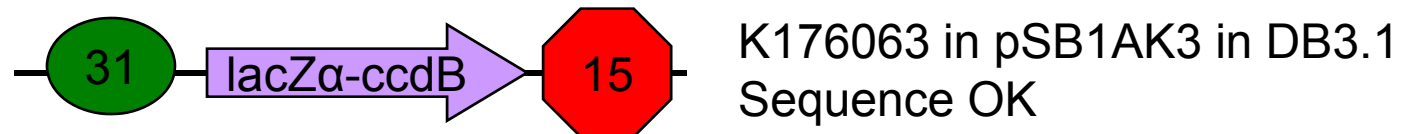
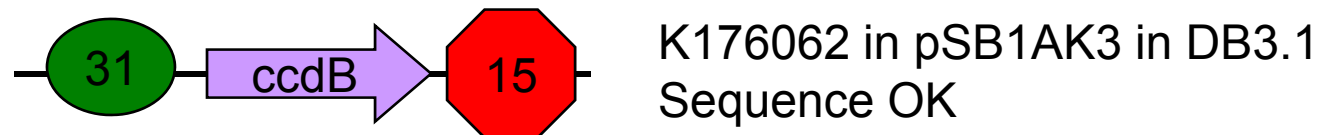
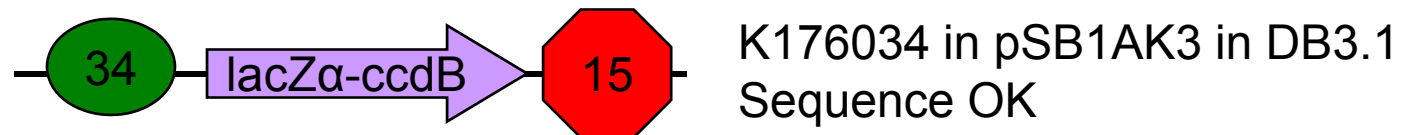
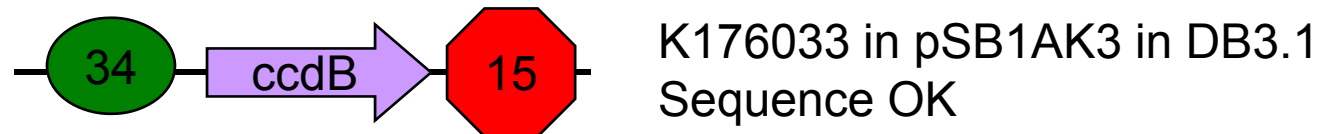
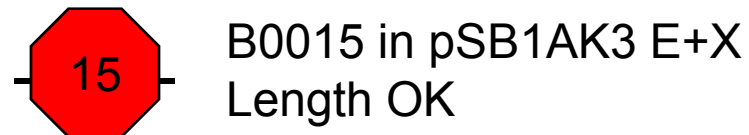
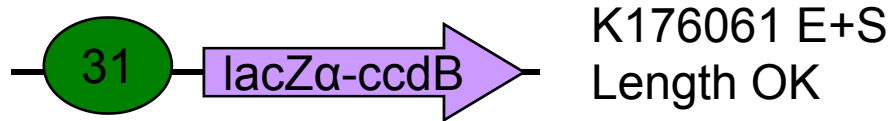
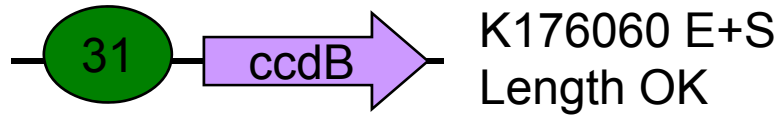
B0031 S+P Length OK



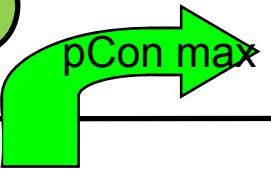
K176060 in pSB1A2 in DB3.1 Sequence OK

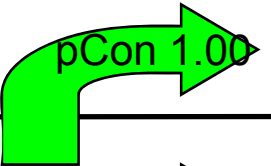


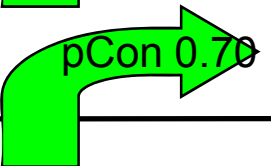
K176061 in pSB1A2 in DB3.1 Sequence OK

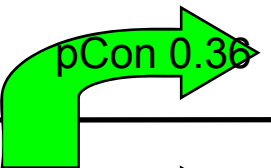


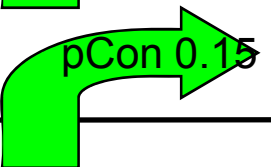
5

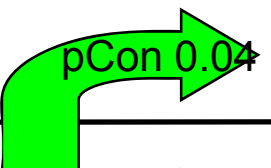
 J23119 in pSB1A2
Sequence OK

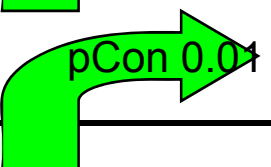
 J23100 in J61002
Sequence ?

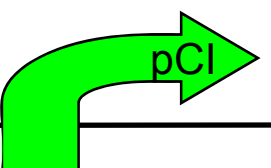
 J23101 in J61002
Sequence OK

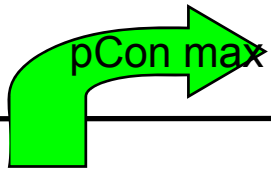
 K176009 in J61002
Sequence OK

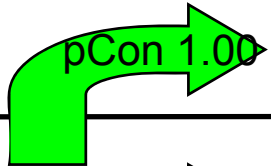
 K176008 in J61002
Sequence OK

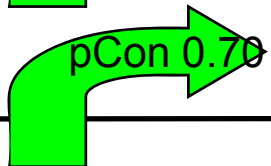
 J23109 in J61002
Sequence OK

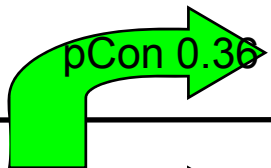
 J23103 in J61002
Sequence OK

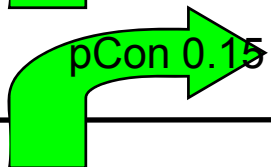
 R0051 in pSB1A2
Sequence OK

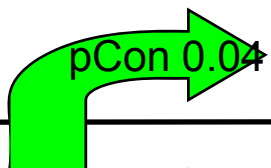
 J23119 X+P
Sequence OK

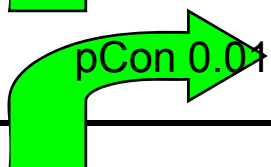
 J23100-J61002SF X+P
Sequence ?

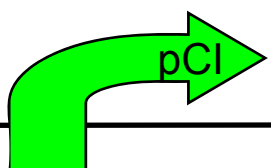
 J23101-J61002SF X+P
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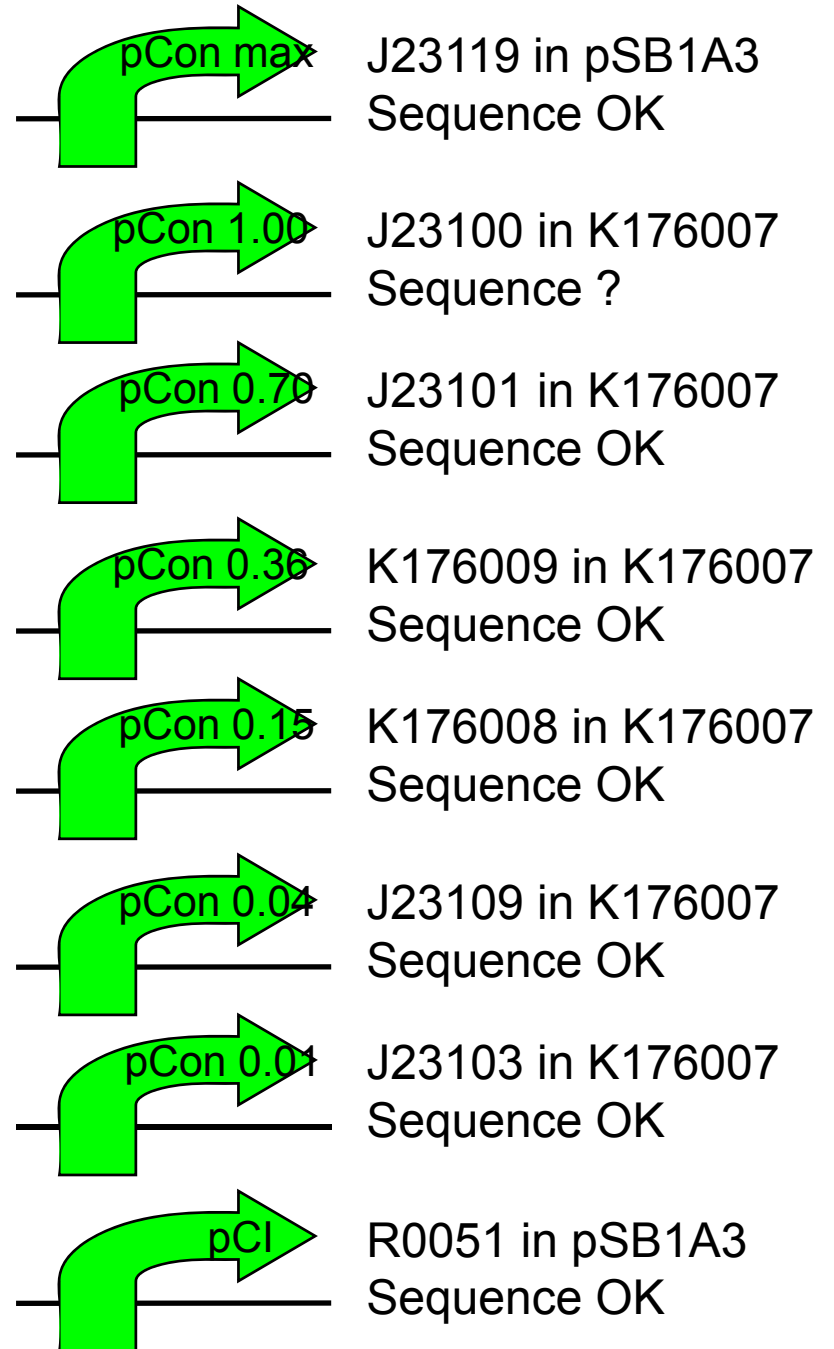
 K176009-J61002SF X+P
Sequence OK

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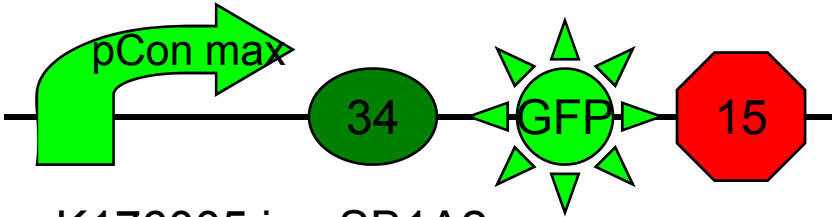
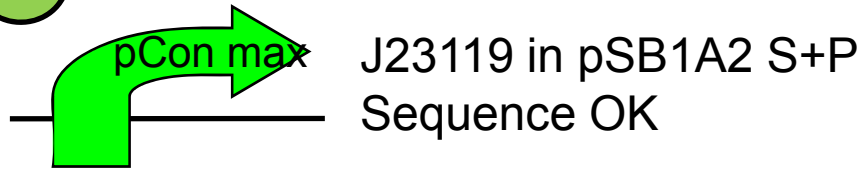
 J23109-J61002SF X+P
Sequence OK

 J23103-J61002SF X+P
Sequence OK

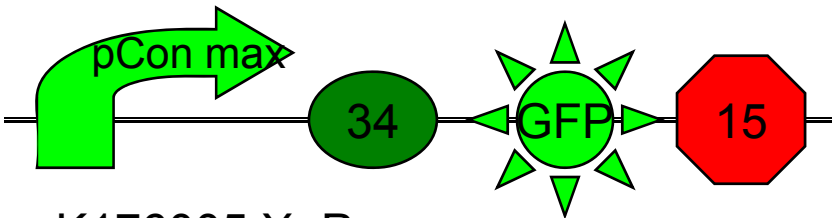
 R0051 X+P
Length OK



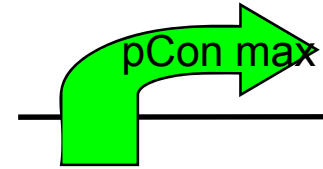
6



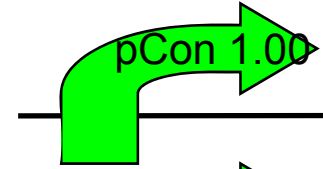
K176005 in pSB1A2
Sequence OK



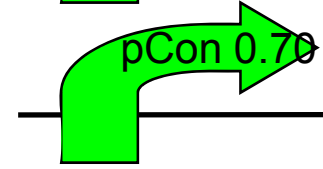
K176005 X+P
Length OK



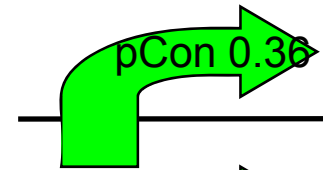
J23119 in pSB1A3 S+P
Length OK



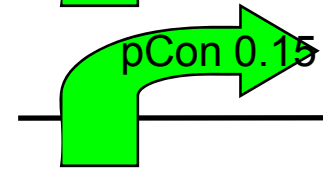
J23100 in pSB1A3 S+P
Length OK



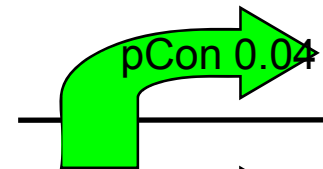
J23101 in pSB1A3 S+P
Length OK



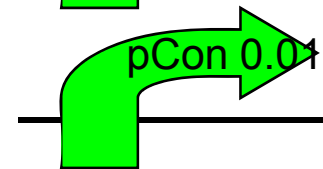
K176009 in pSB1A3 S+P
Length OK



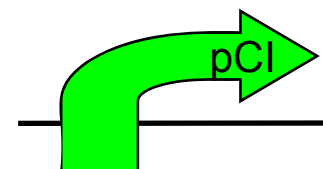
K176008 in pSB1A3 S+P
Length OK



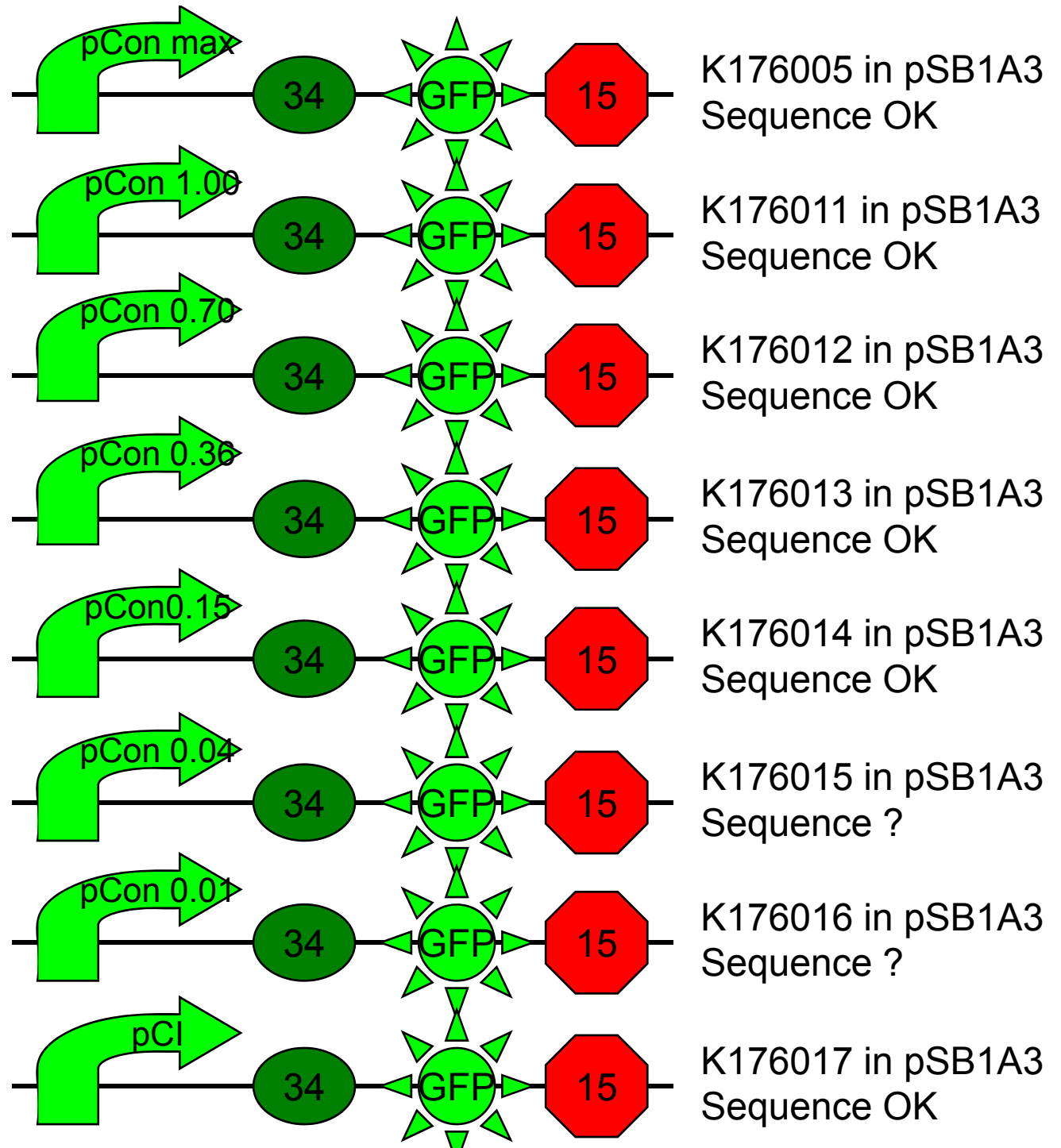
J23109 in pSB1A3 S+P
Length OK

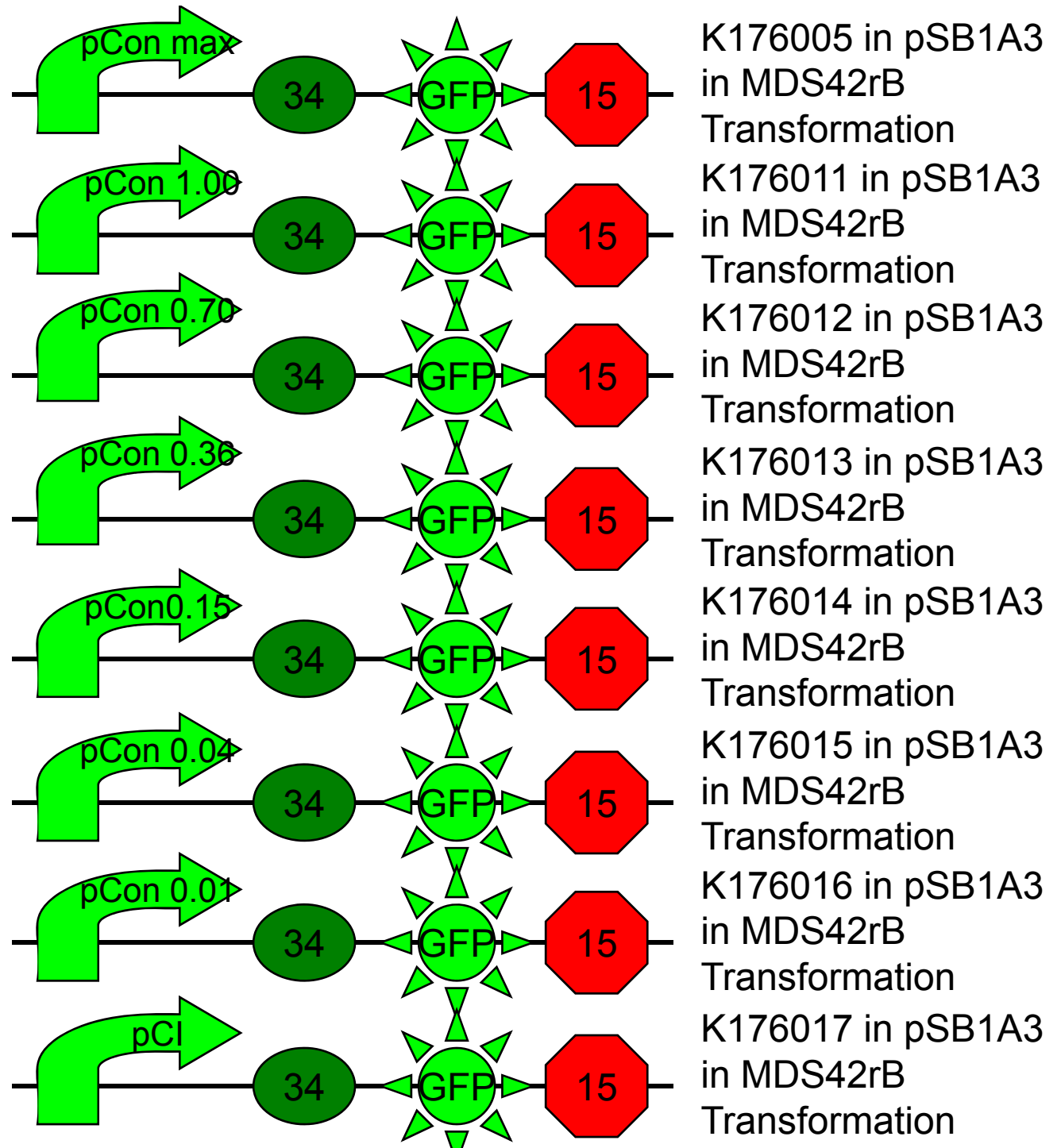


J23103 in pSB1A3 S+P
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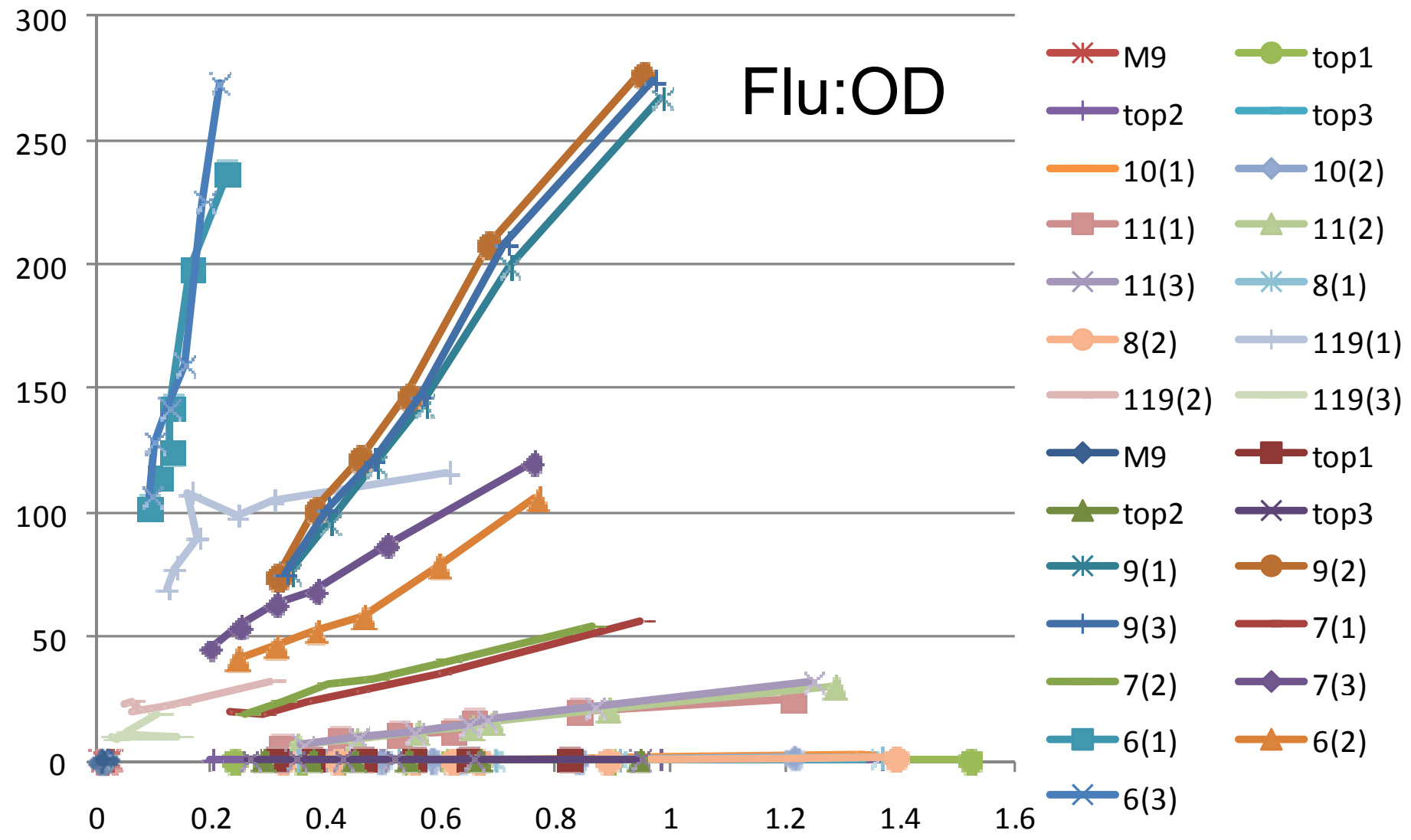


R0051 in pSB1A3 S+P
Length OK

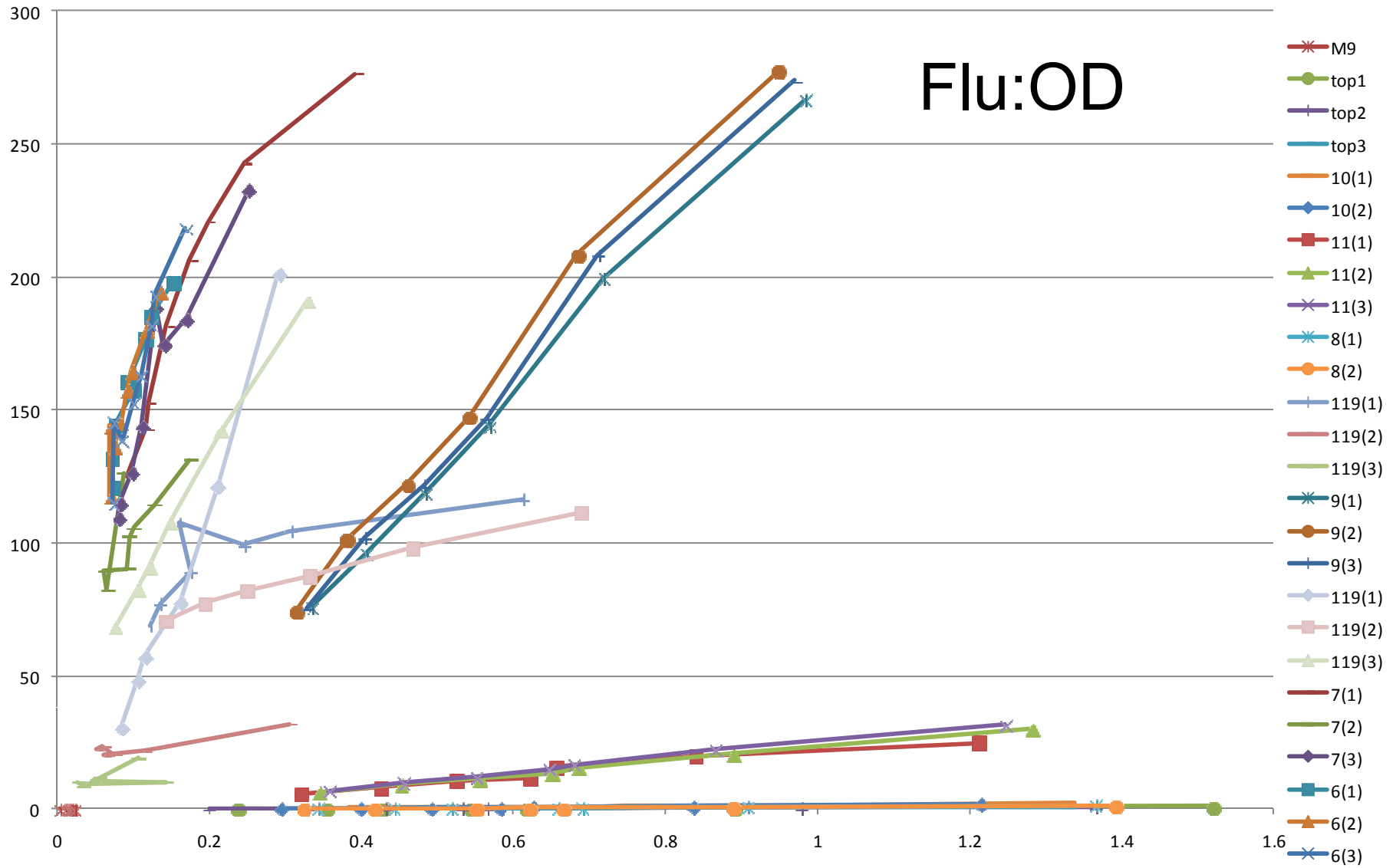




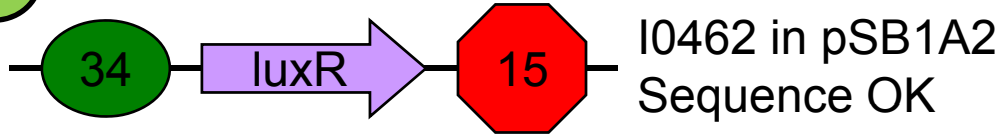
Flu:OD



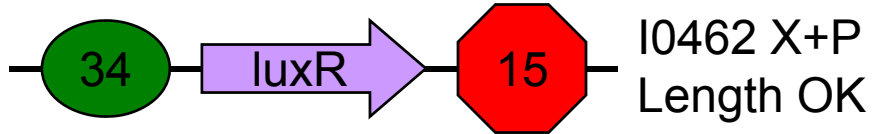
Flu:OD



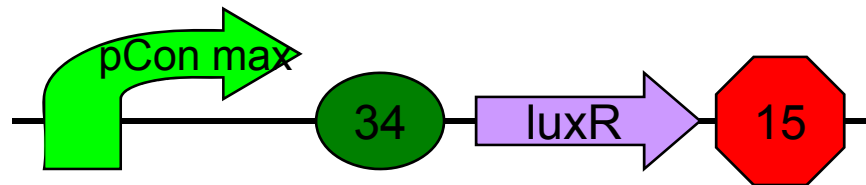
7



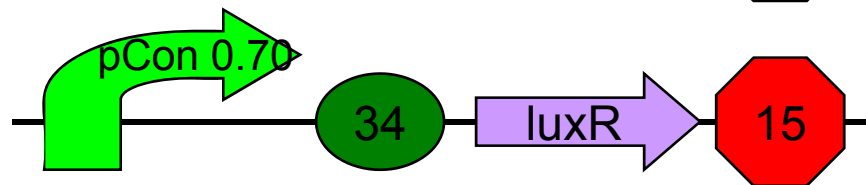
I0462 in pSB1A2
Sequence OK



I0462 X+P
Length OK

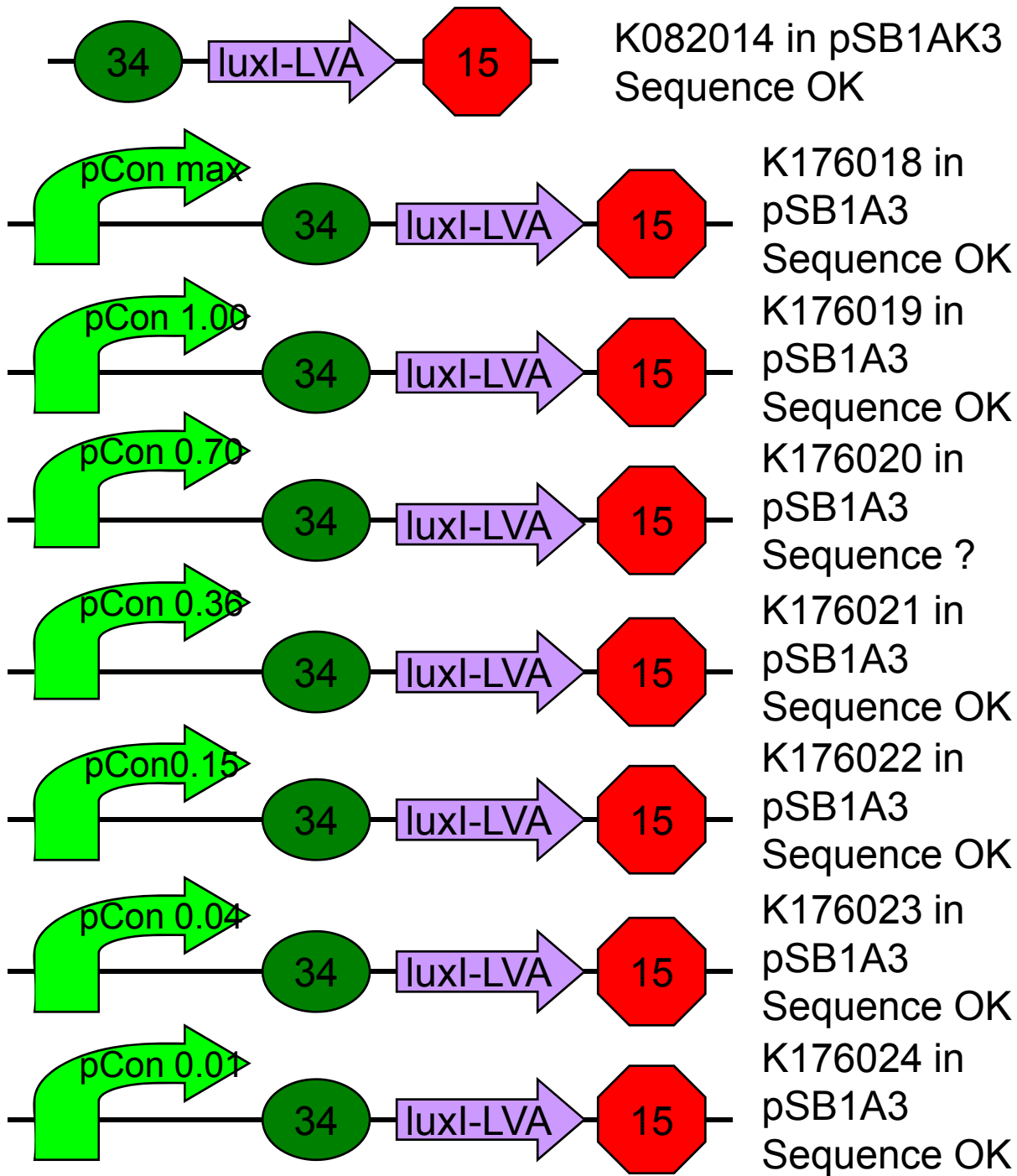


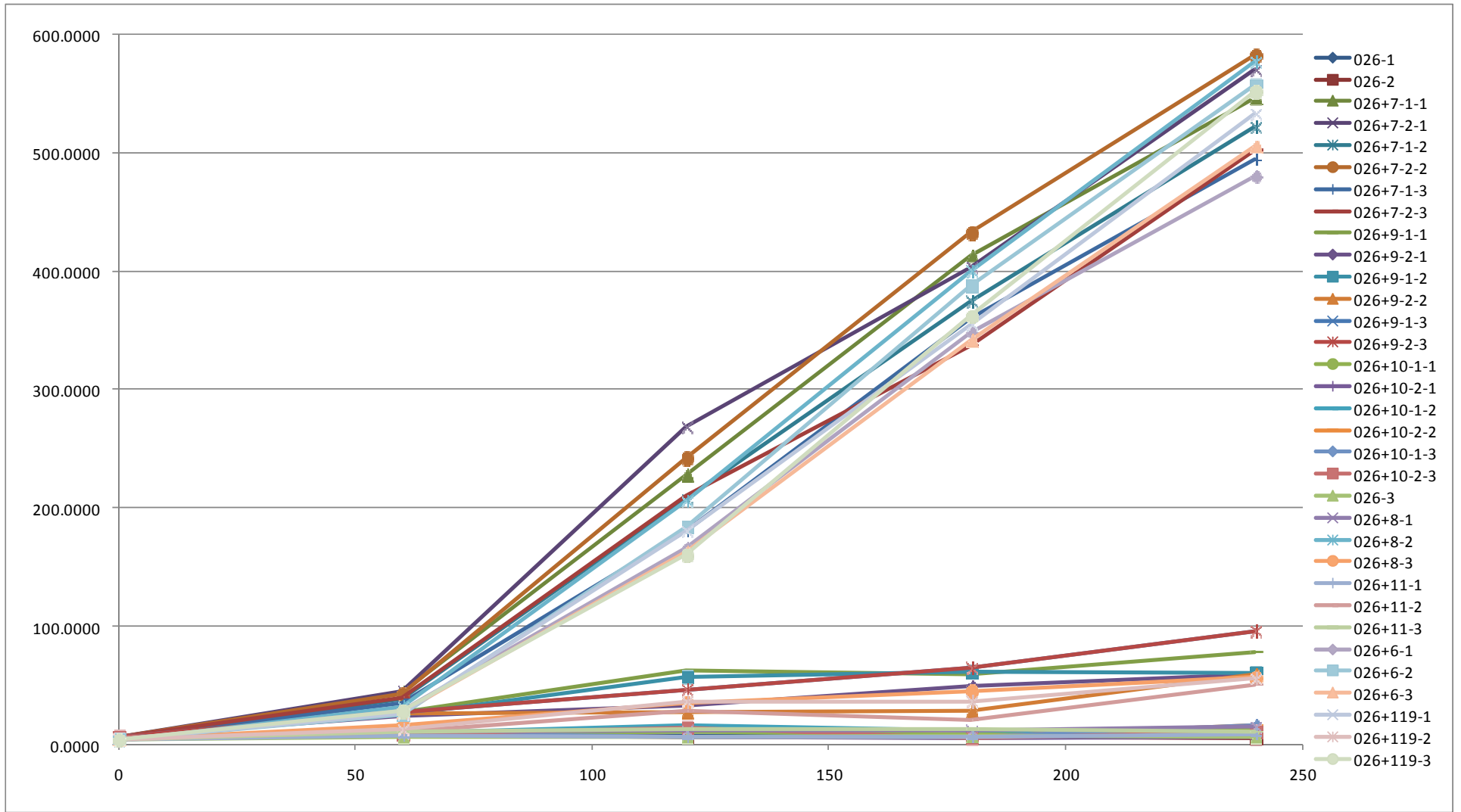
K176004 in pSB1A2
Sequence OK
Length ?

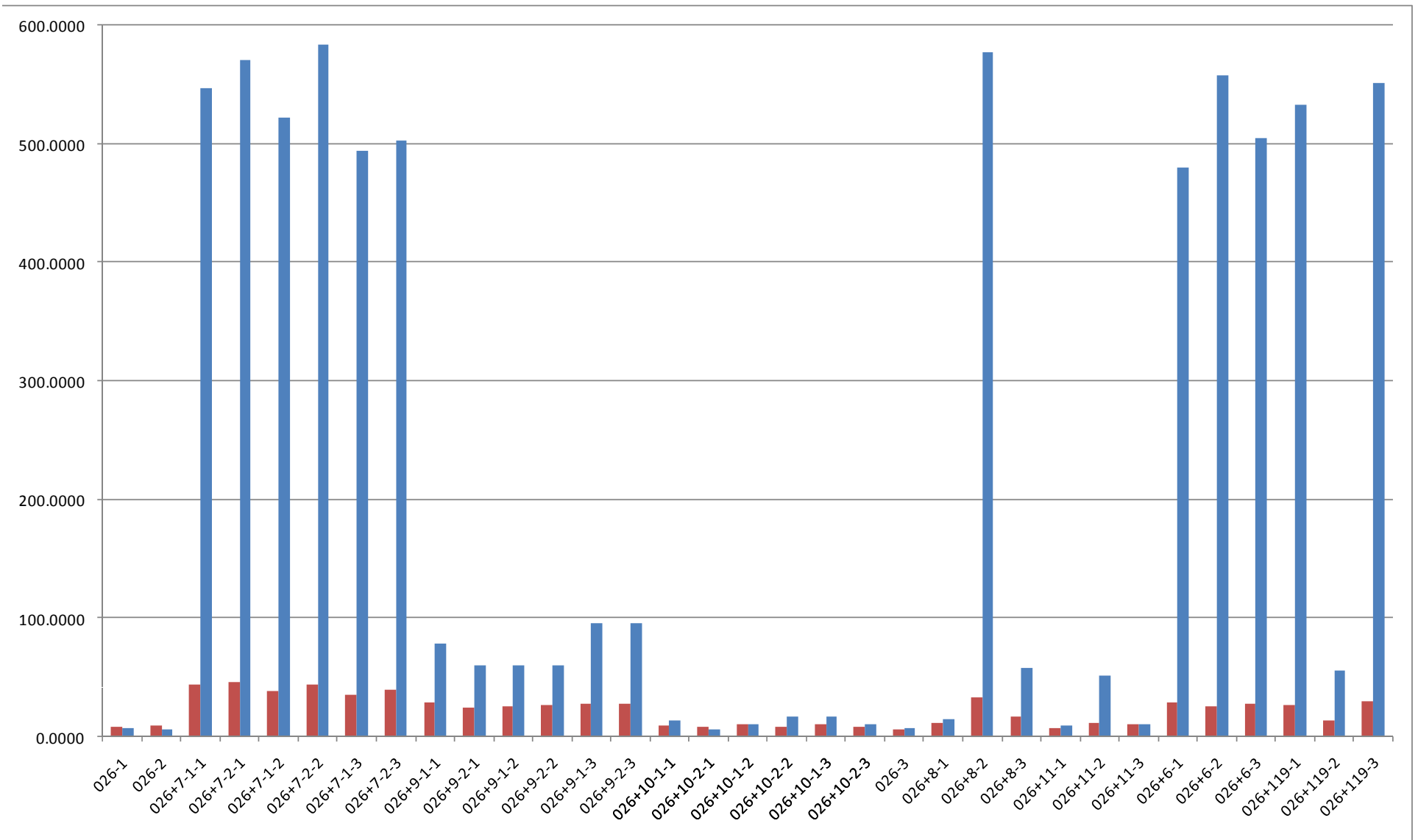


K176025 in pSB1A3
Sequence ?

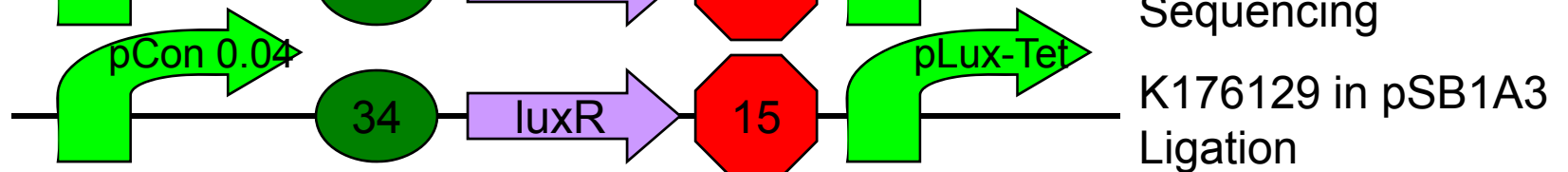
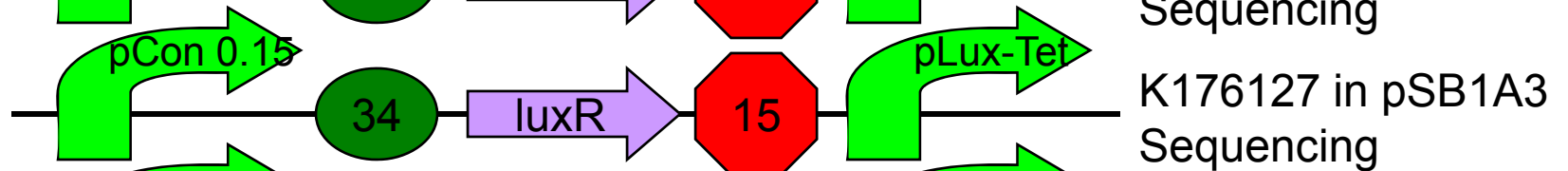
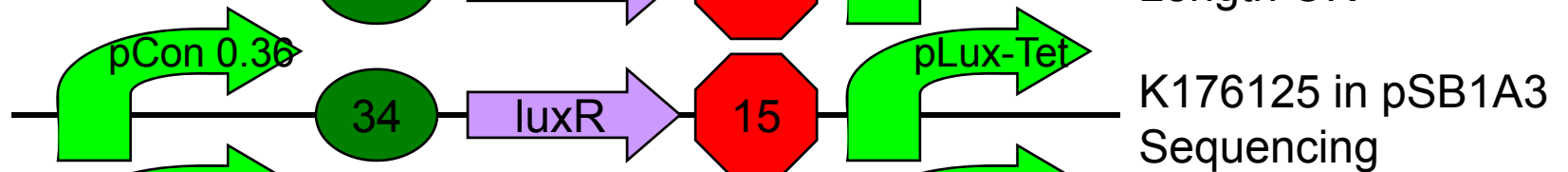
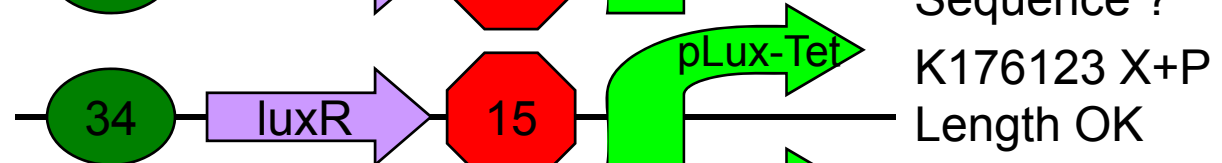
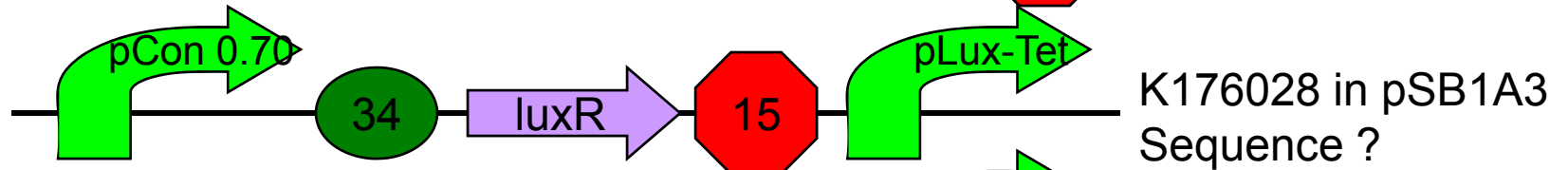
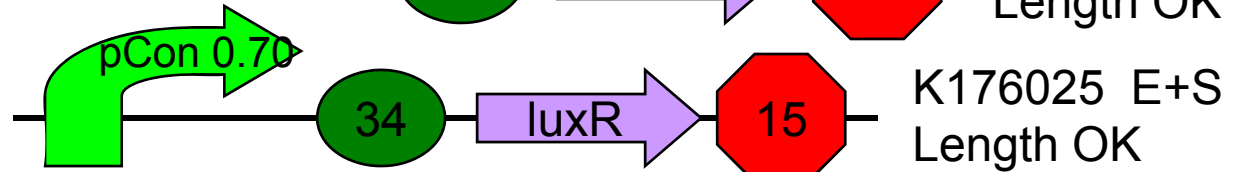
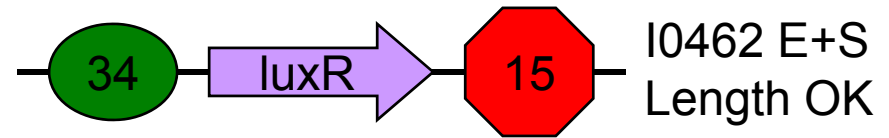
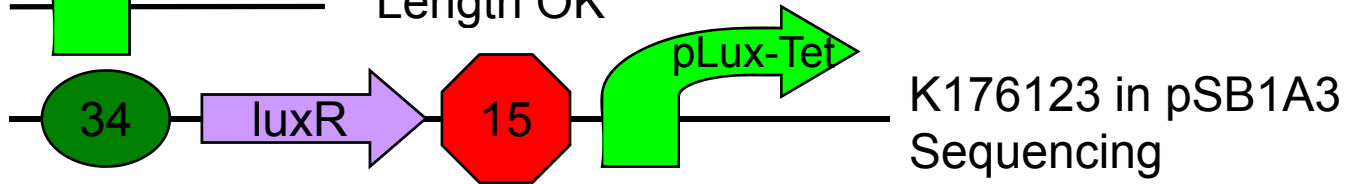
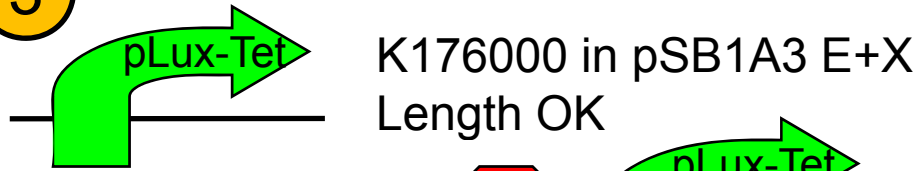
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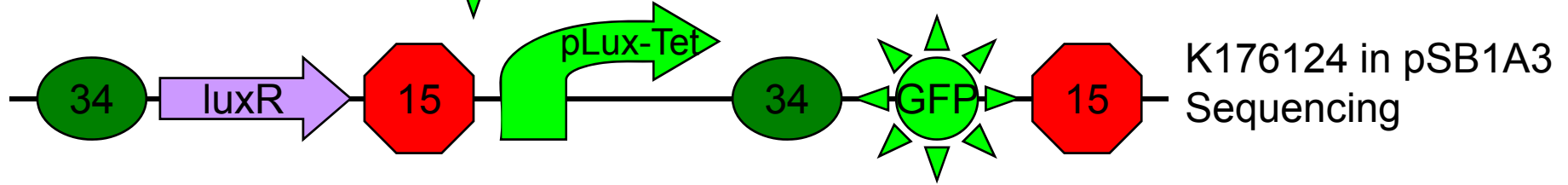
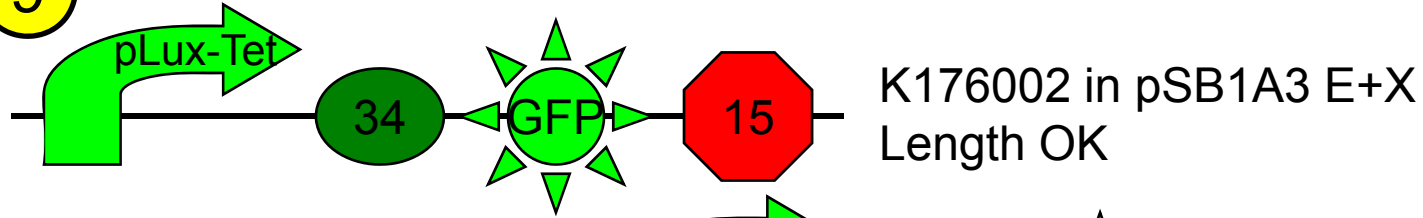




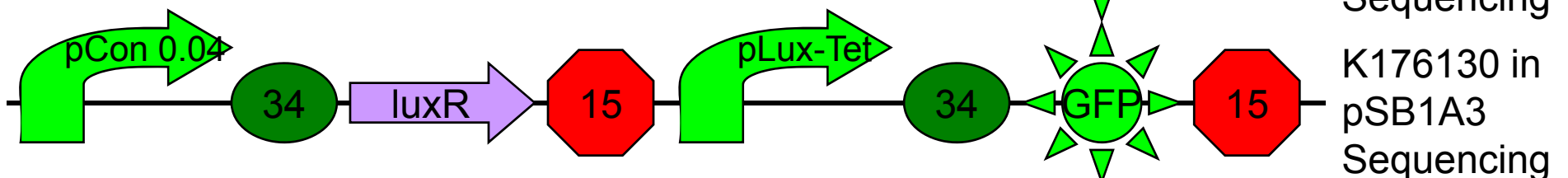
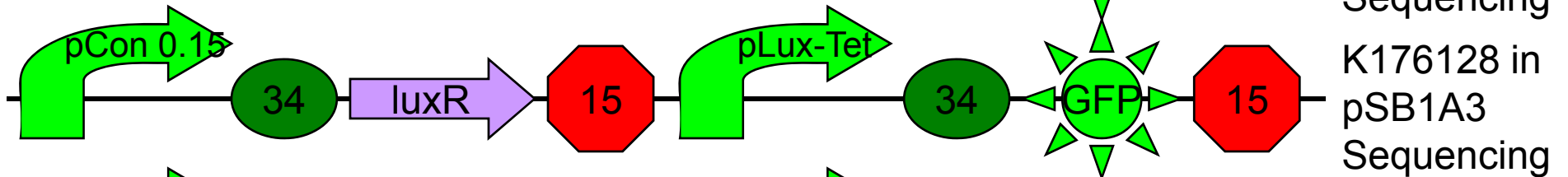
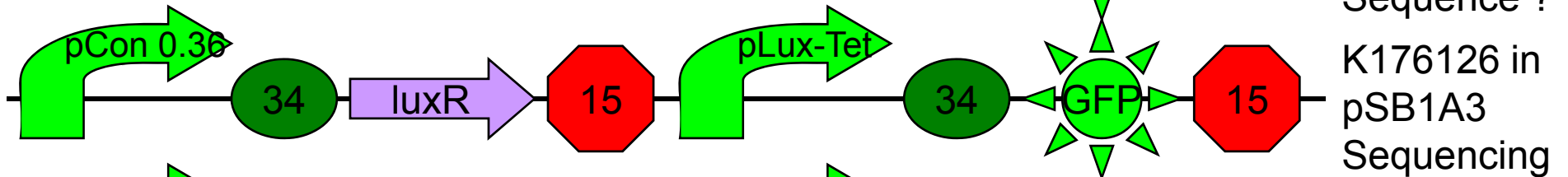
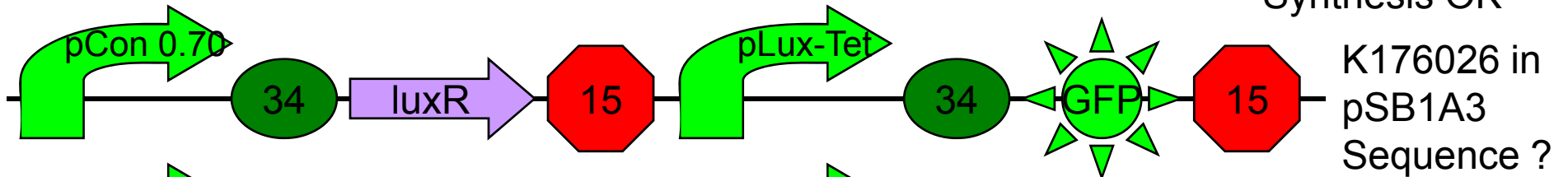
3



9



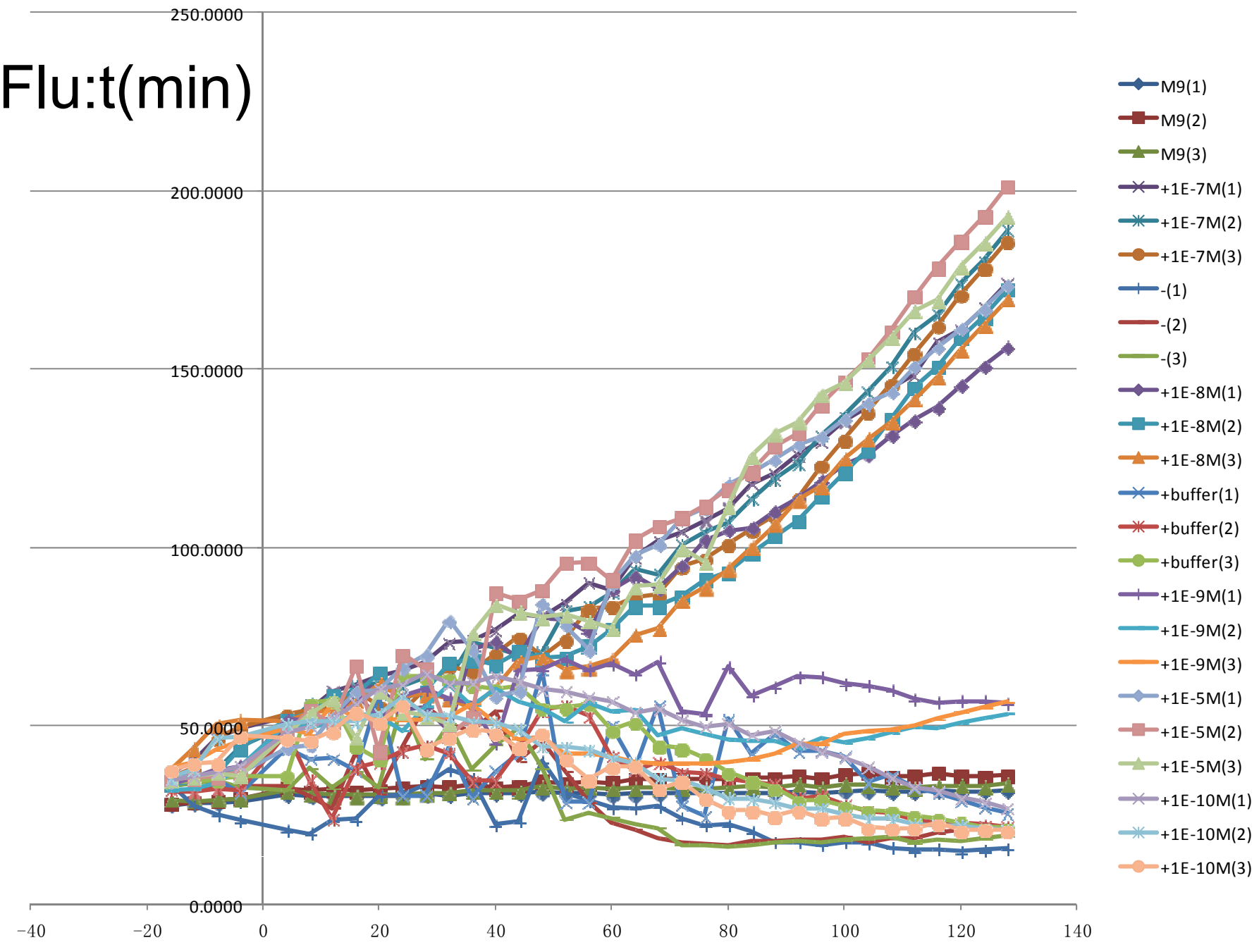
VRGFP ← G00201
Synthesis OK



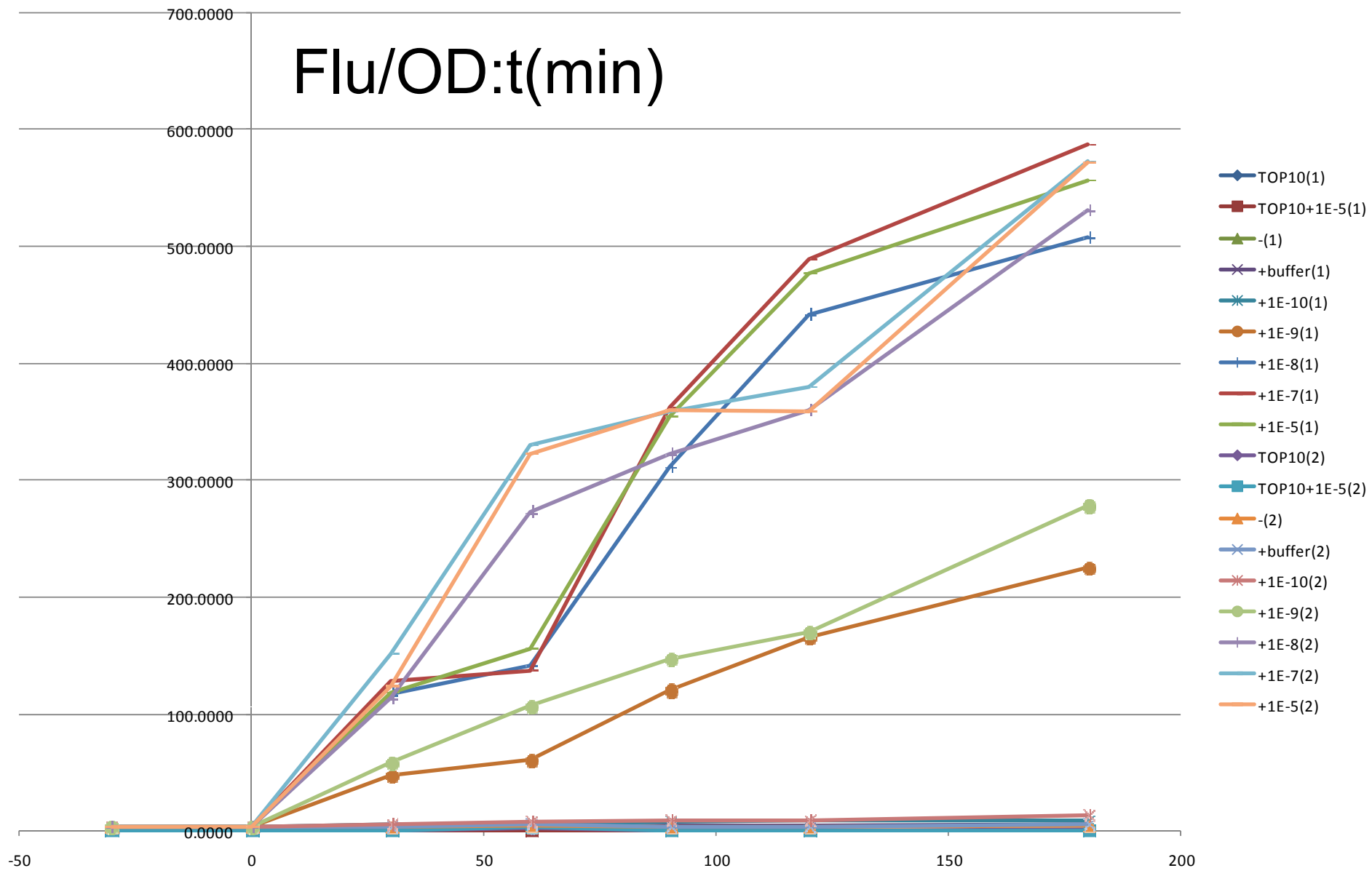
Methods

- Plate Reader
- Spectrophotometer

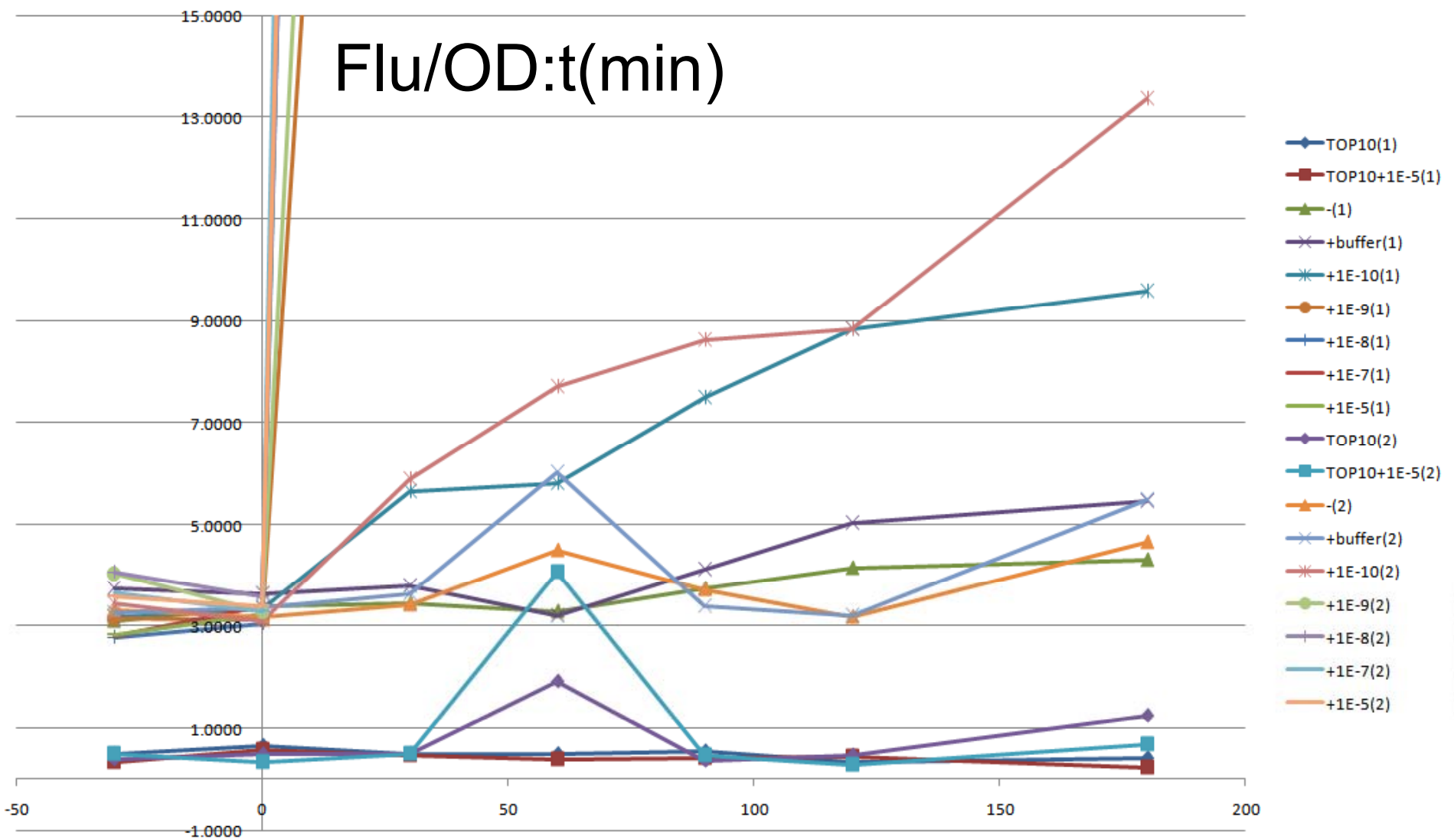
Flu:t(min)

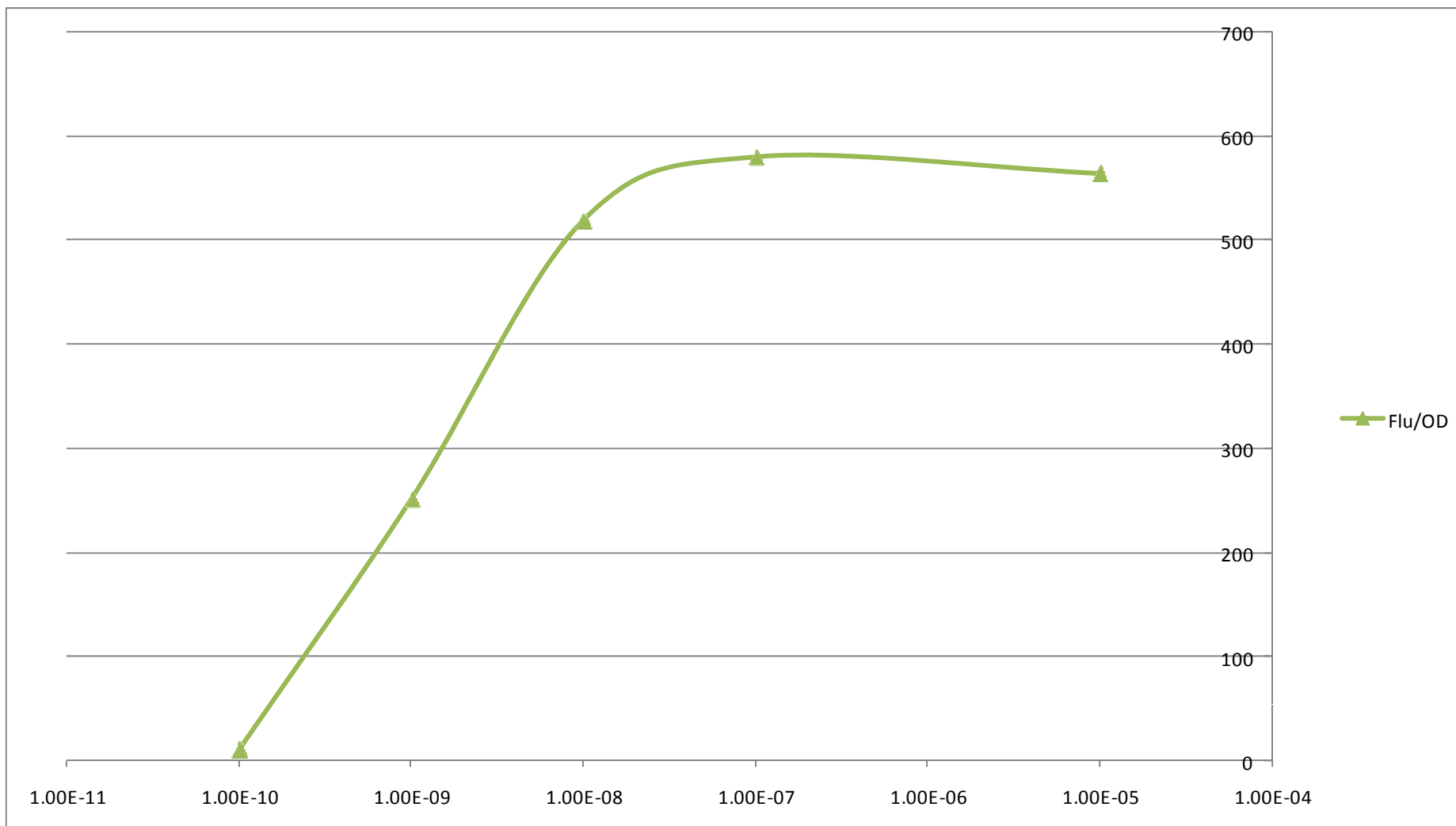


Flu/OD:t(min)

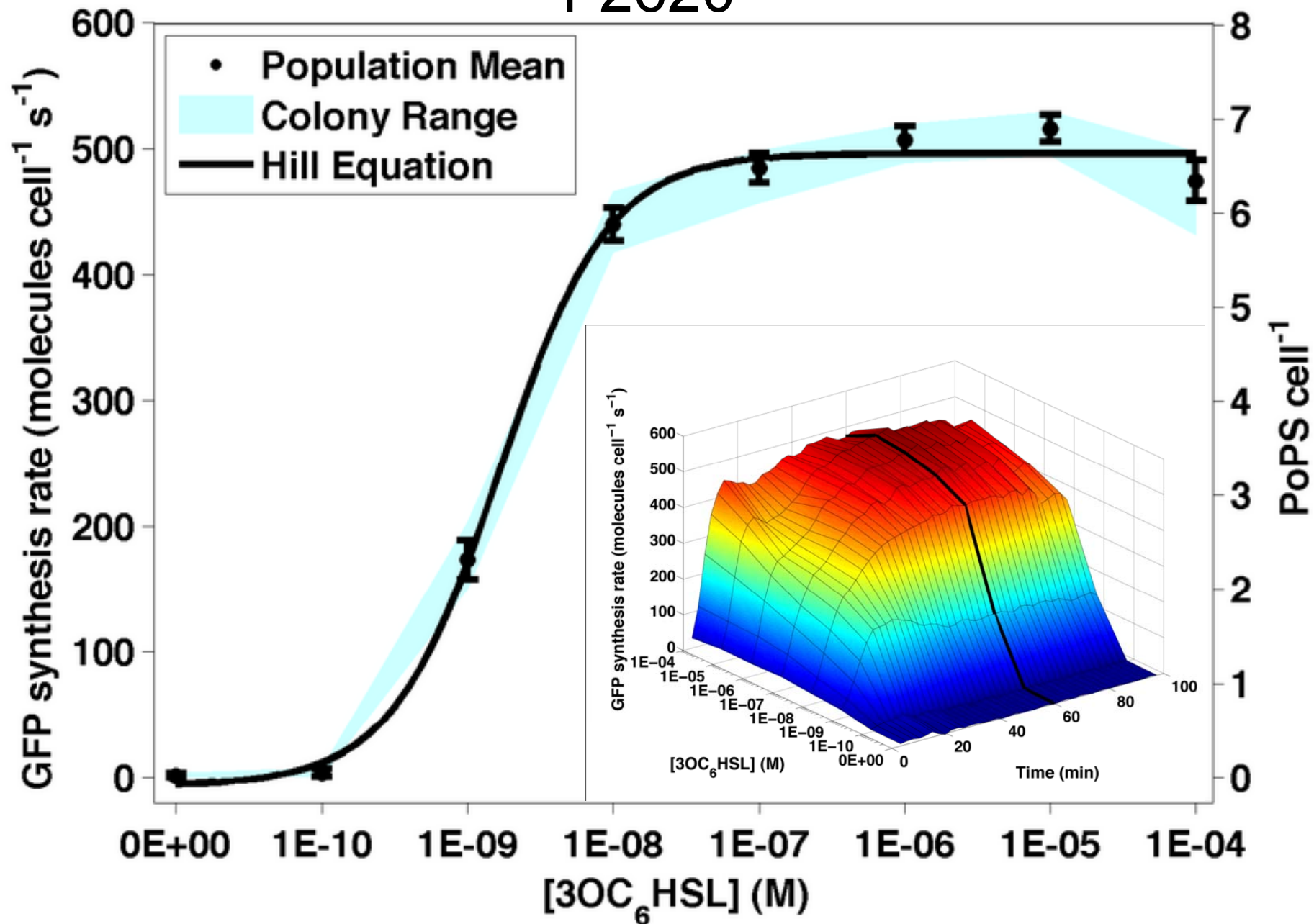


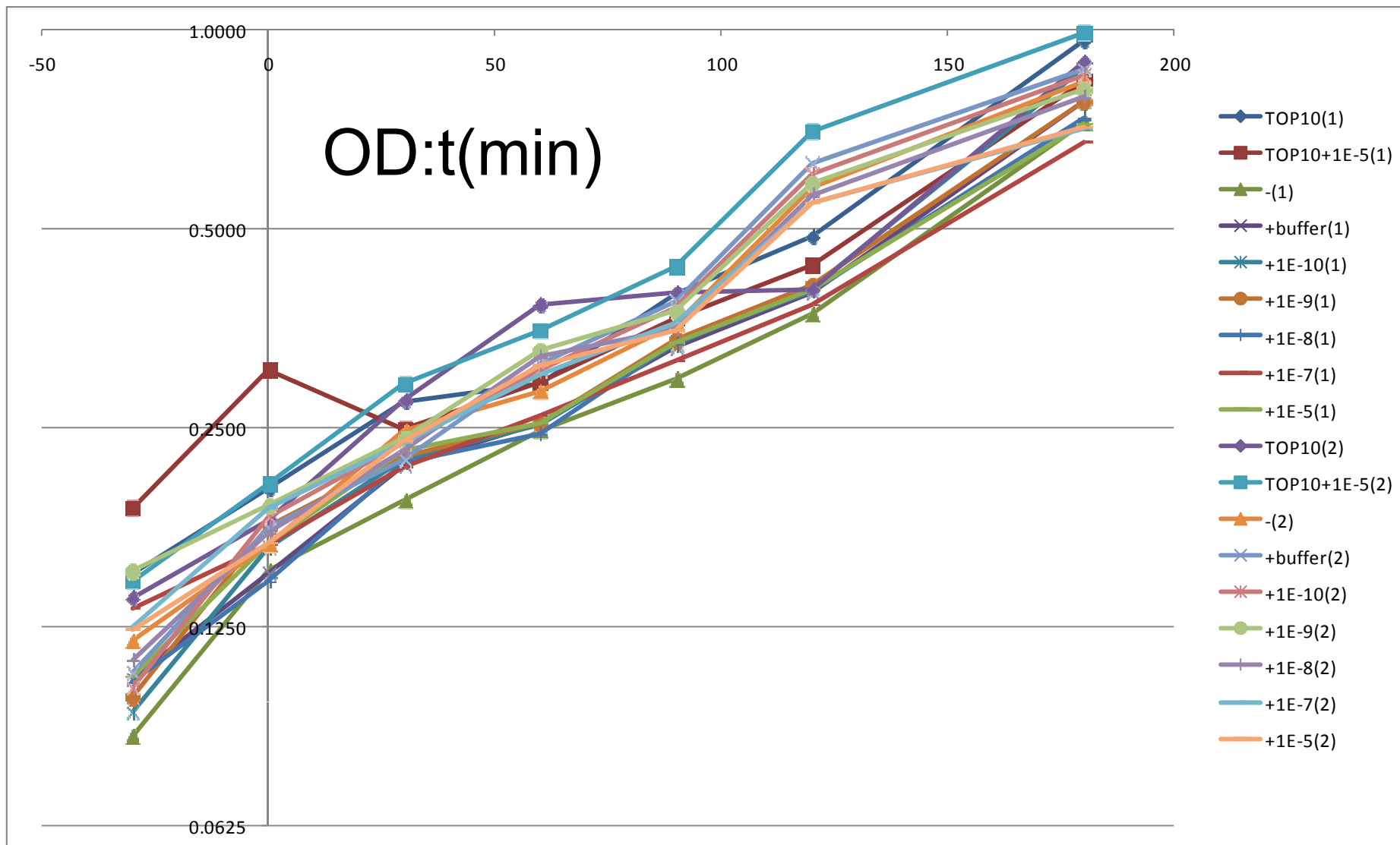
Flu/OD:t(min)



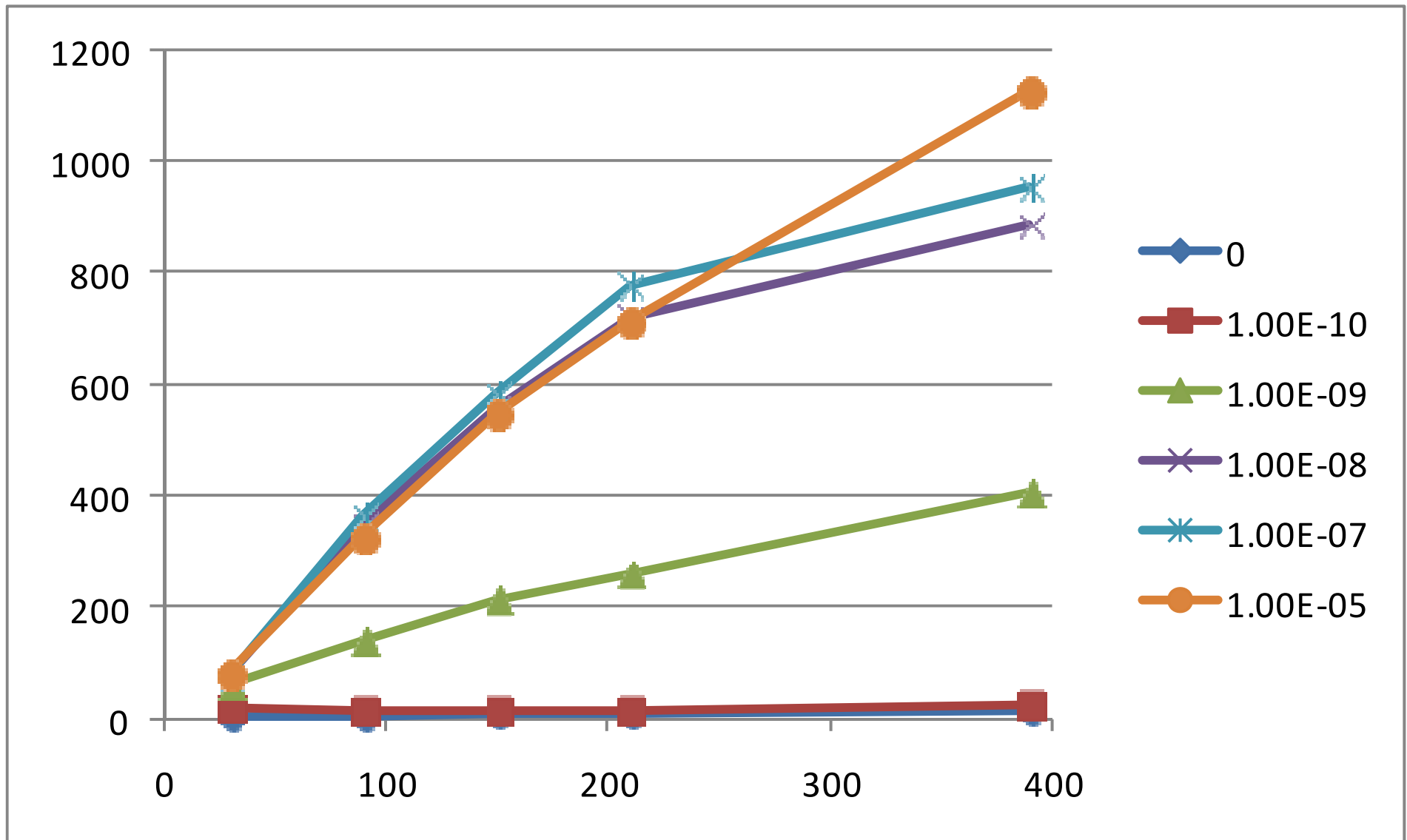


F2620

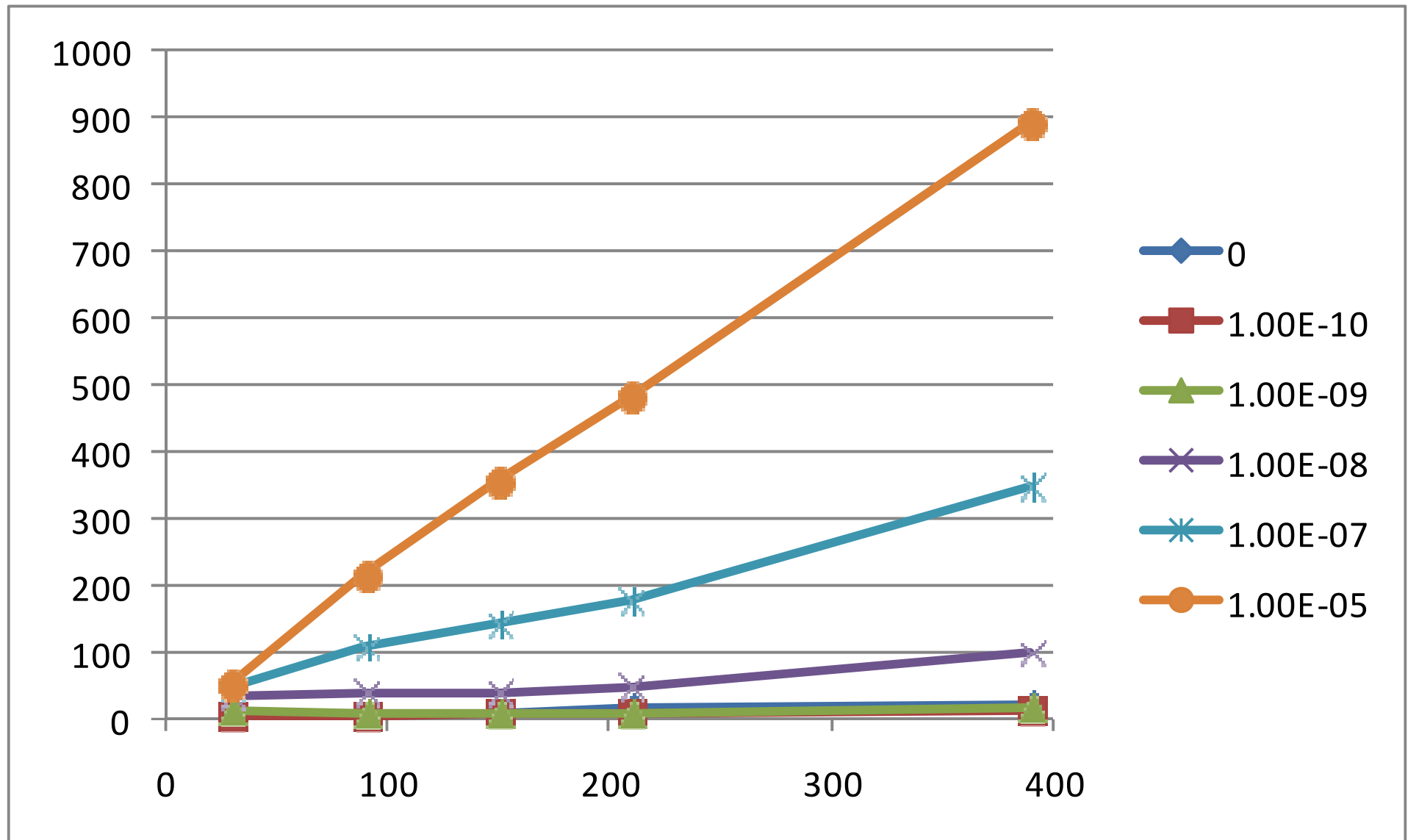




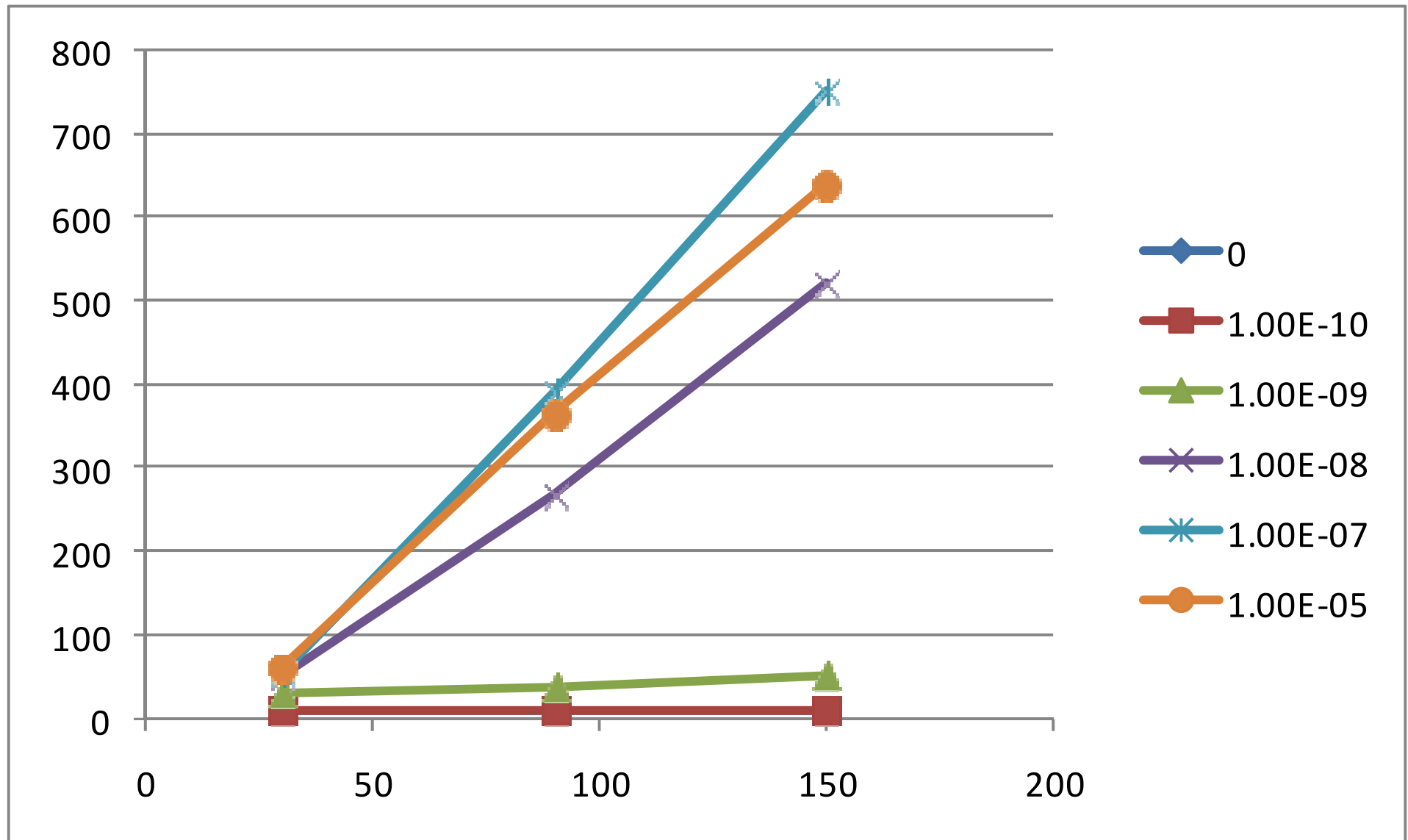
9+R+002 (K176126)

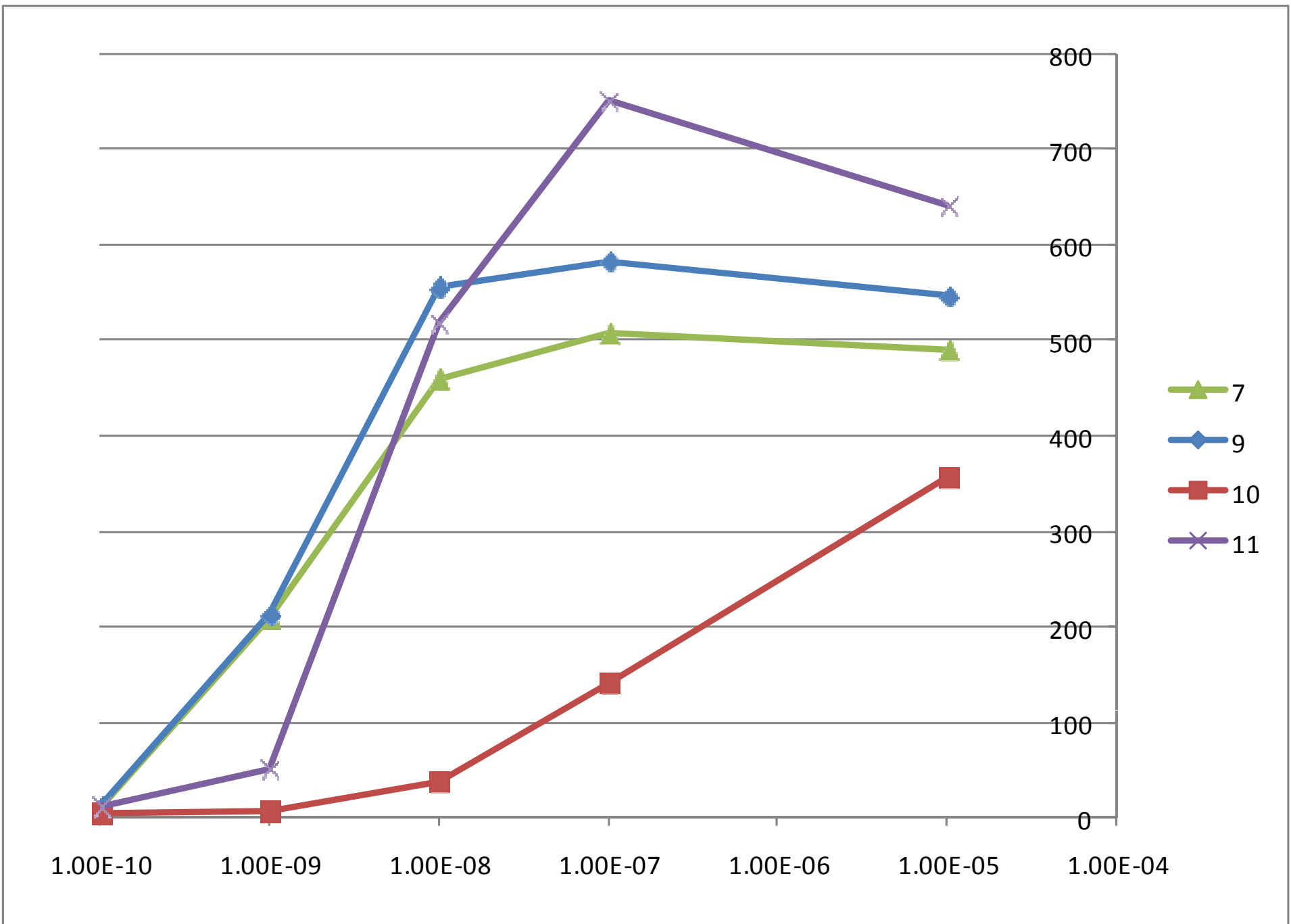


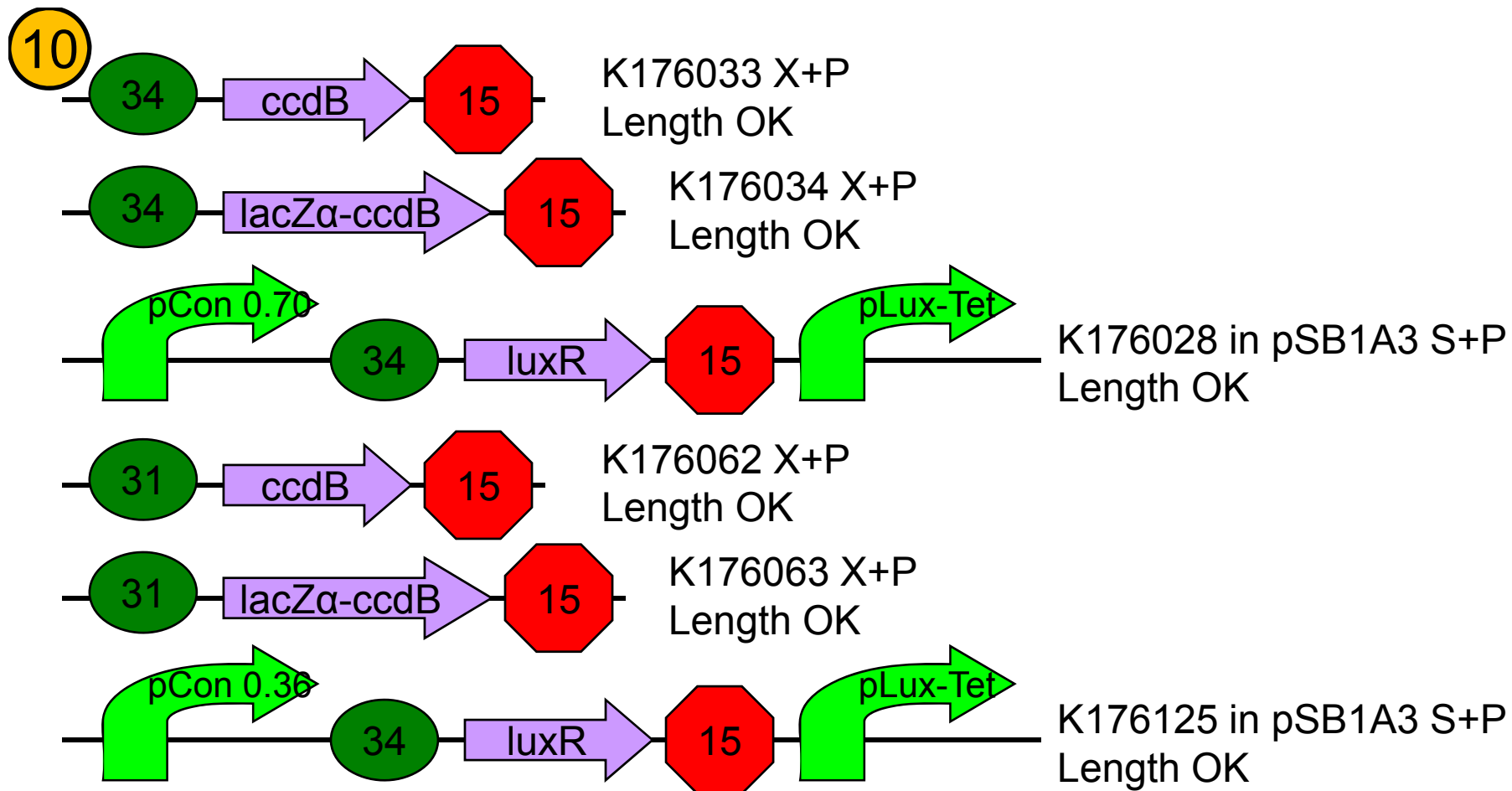
10+R+002 (K176130)



11+R+002 (K176128)

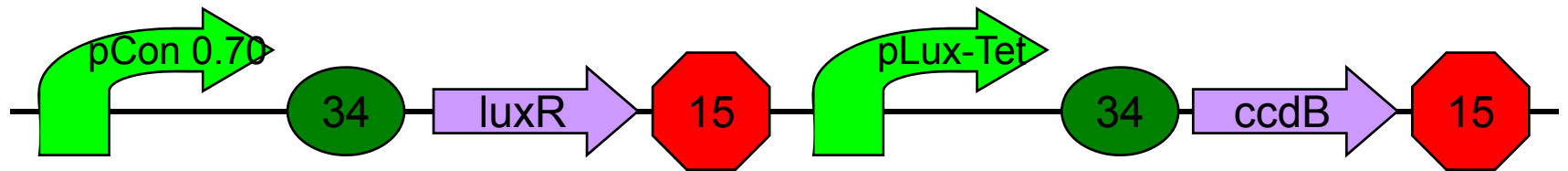




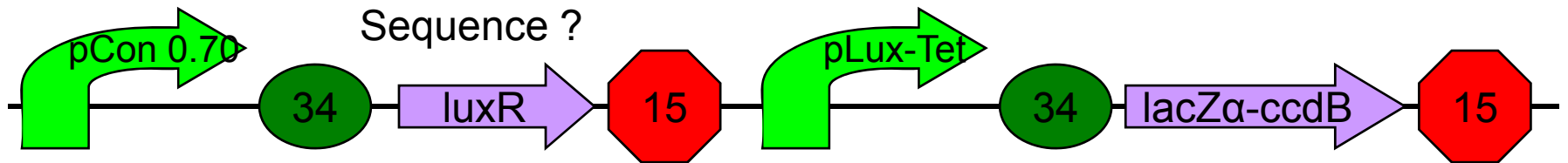


← VRccdB K176058
Synthesis OK

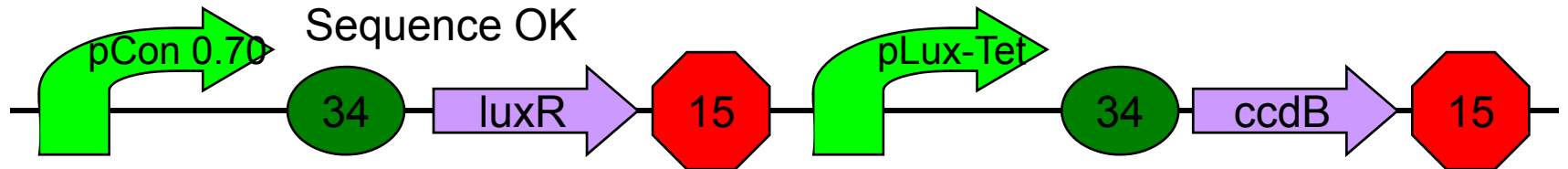
← M13-47 K176059
Synthesis OK



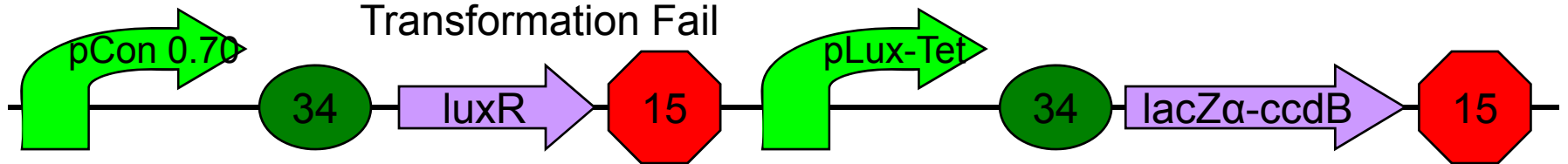
K176035 in pSB1A3 in DB3.1
Sequence ?



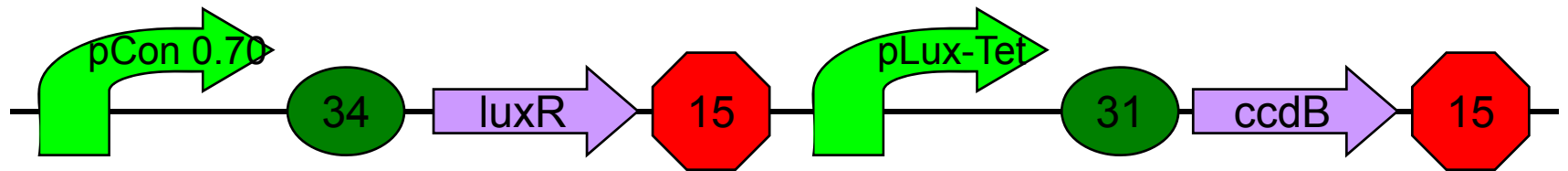
K176036 in pSB1A3 in DB3.1
Sequence OK



K176035 in pSB1A3 in TOP10
Transformation Fail

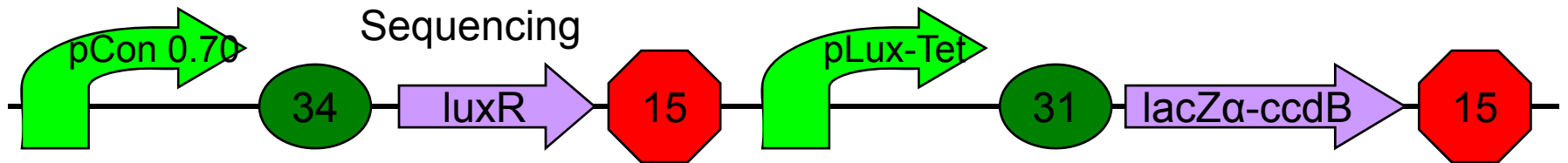


K176036 in pSB1A3 in TOP10
Transformation Fail



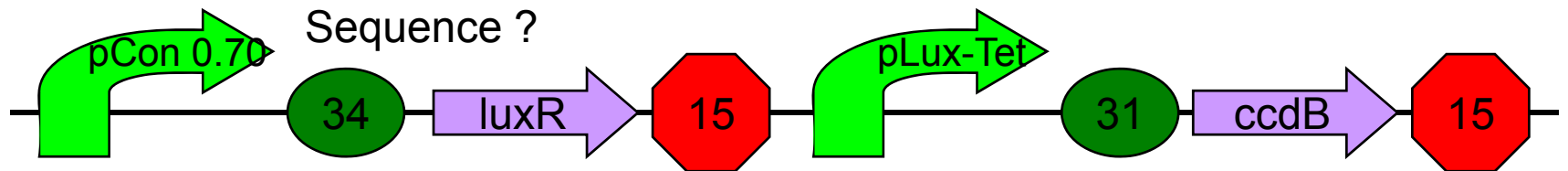
K176089 in pSB1A3 in DB3.1

Sequencing



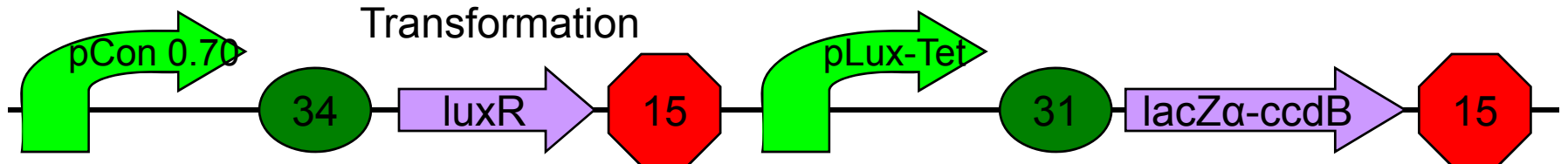
K176090 in pSB1A3 in DB3.1

Sequence ?



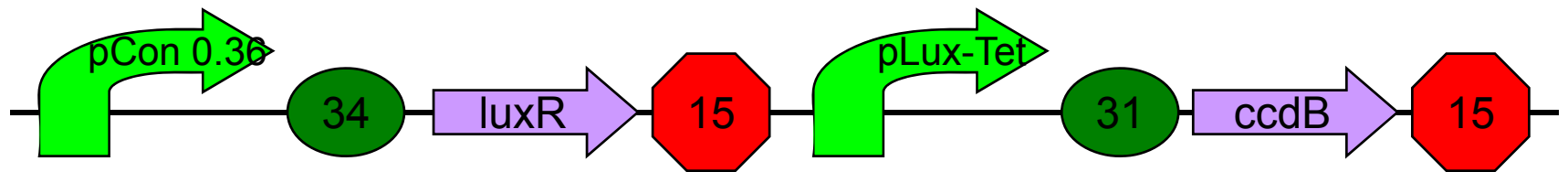
K176089 in pSB1A3 in TOP10

Transformation



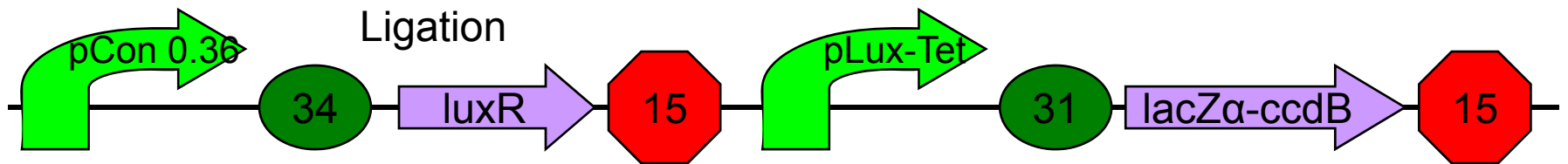
K176090 in pSB1A3 in TOP10

Transformation



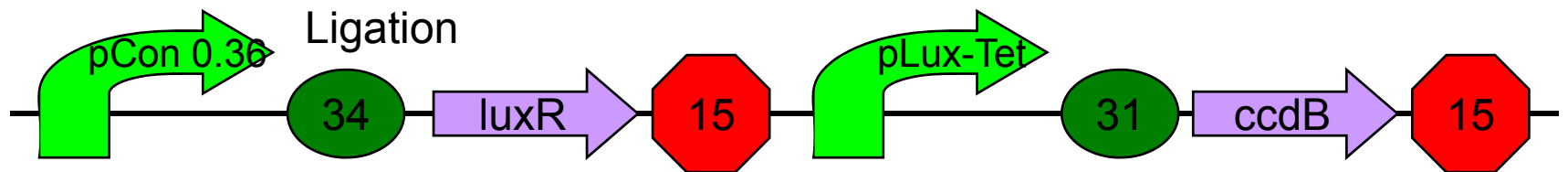
K176131 in pSB1A3 in DB3.1

Ligation



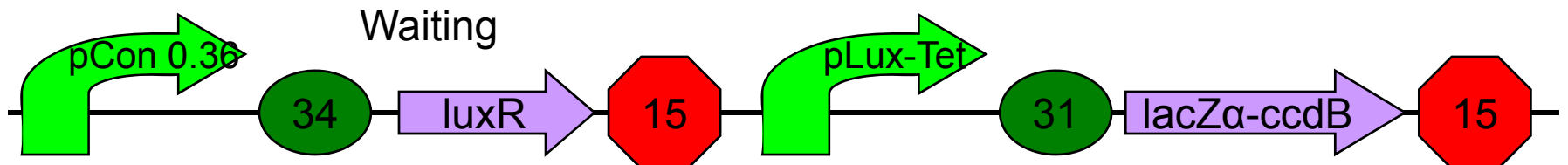
K176132 in pSB1A3 in DB3.1

Ligation



K176131 in pSB1A3 in TOP10

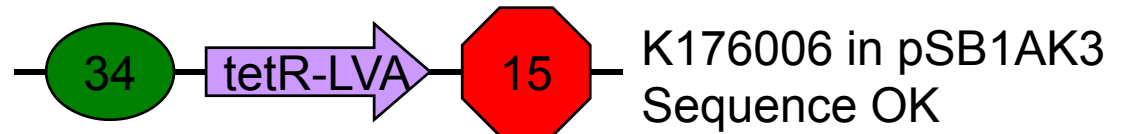
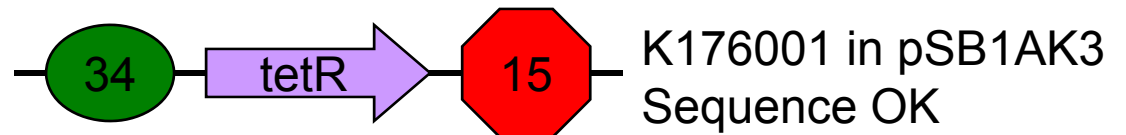
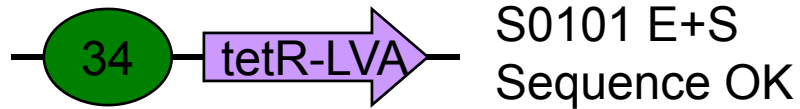
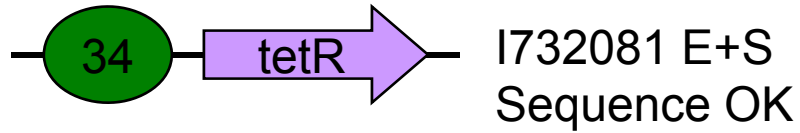
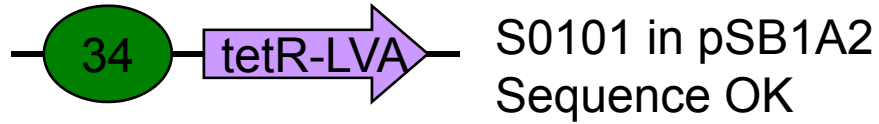
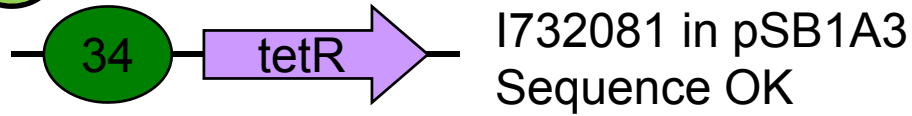
Waiting



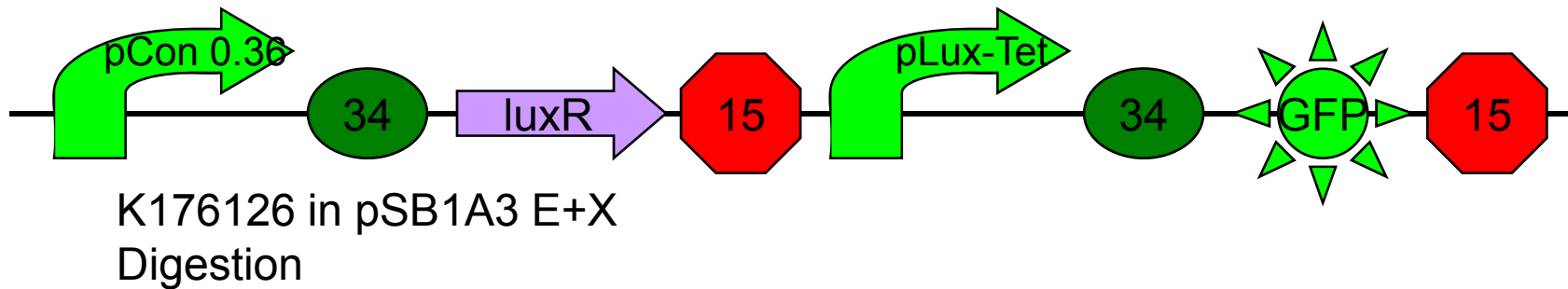
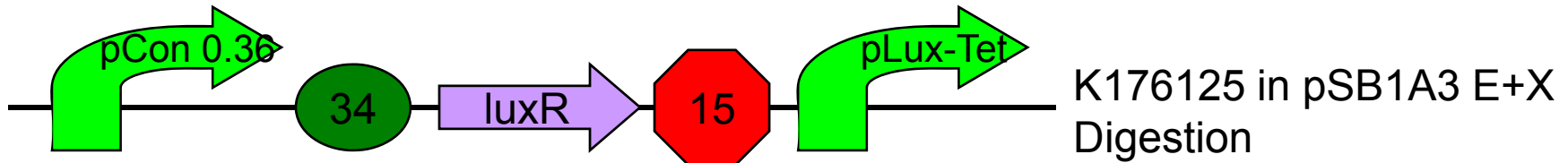
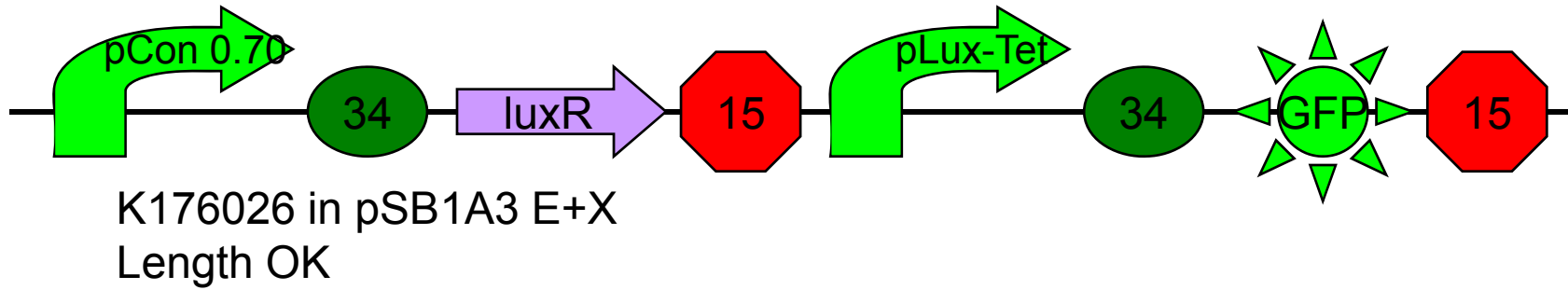
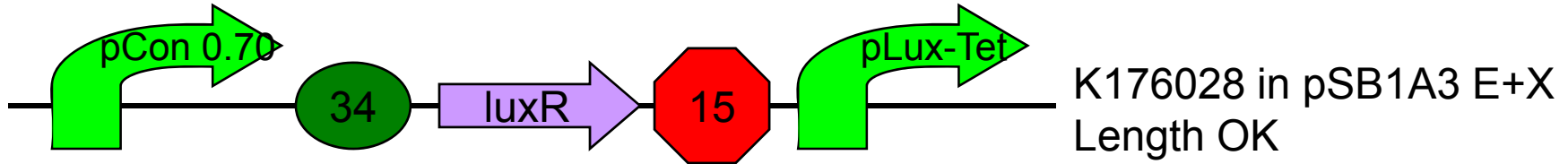
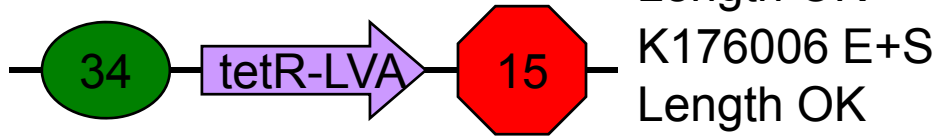
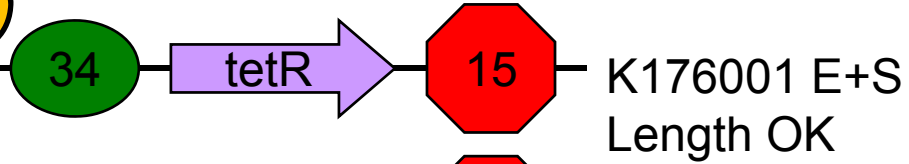
K176132 in pSB1A3 in TOP10

Waiting

11

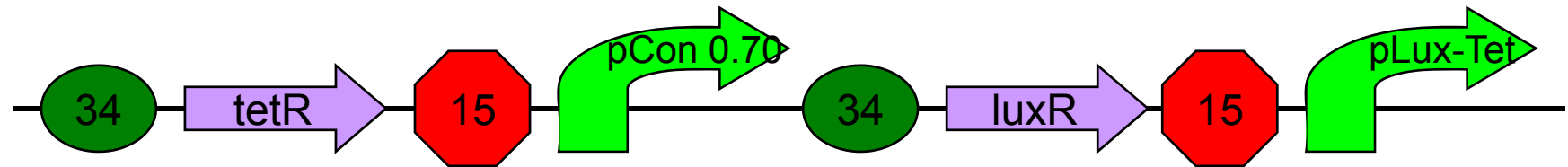


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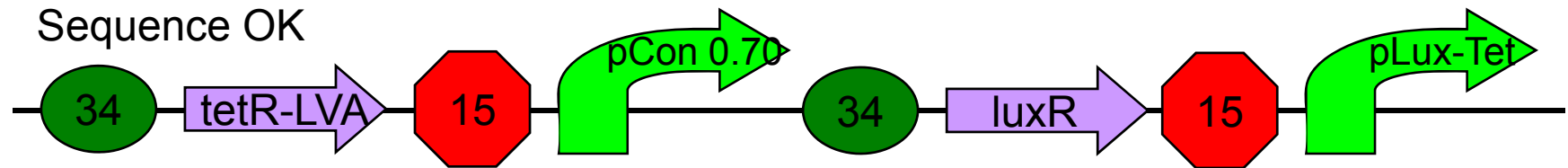




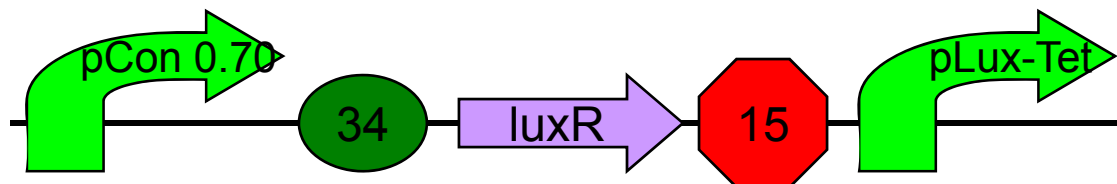
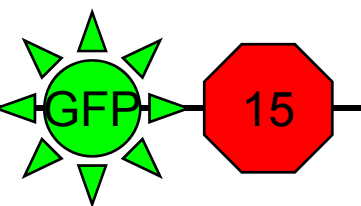
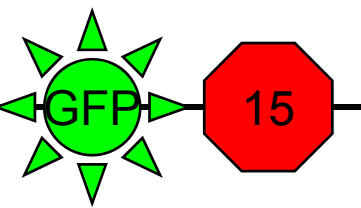
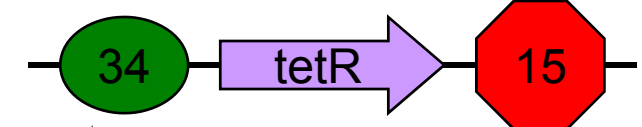
K176057
Synthesis OK



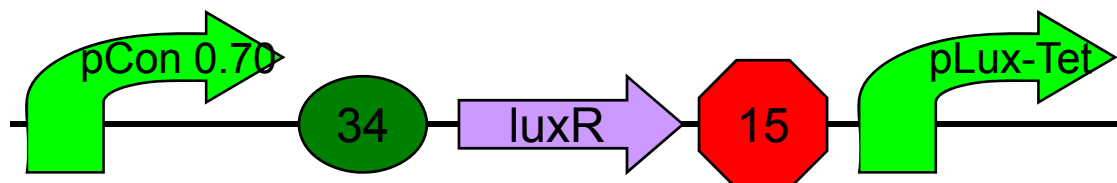
K176031 in pSB1A3
Sequence OK



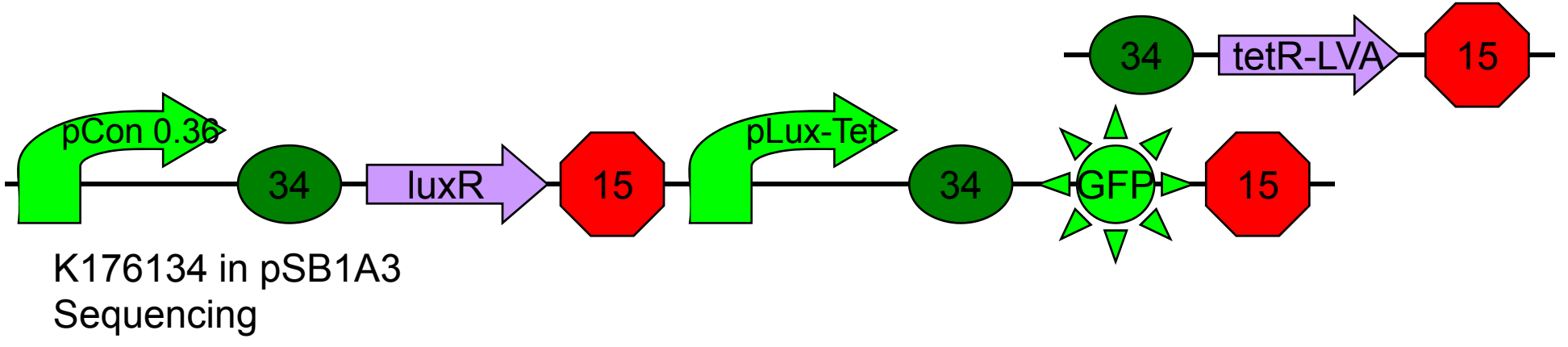
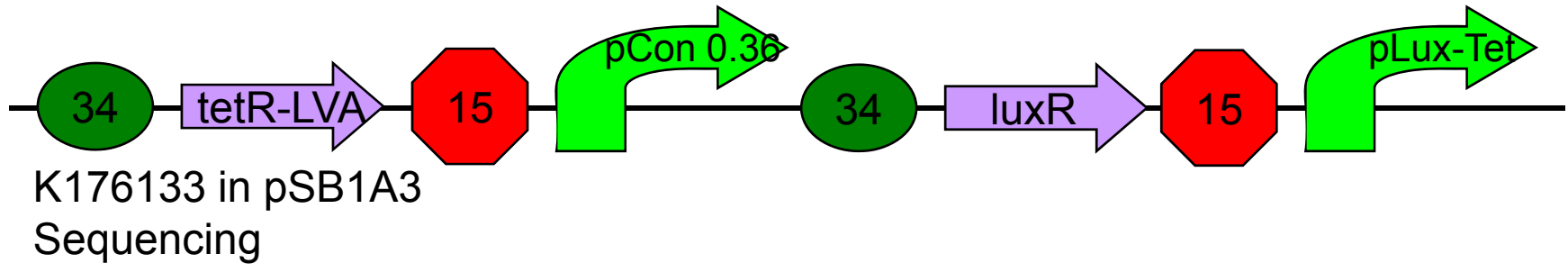
K176032 in pSB1A3
Sequence OK



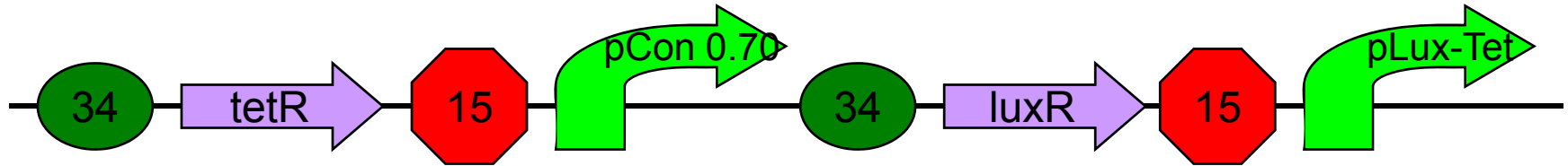
K176029 in pSB1A3
Sequence ?



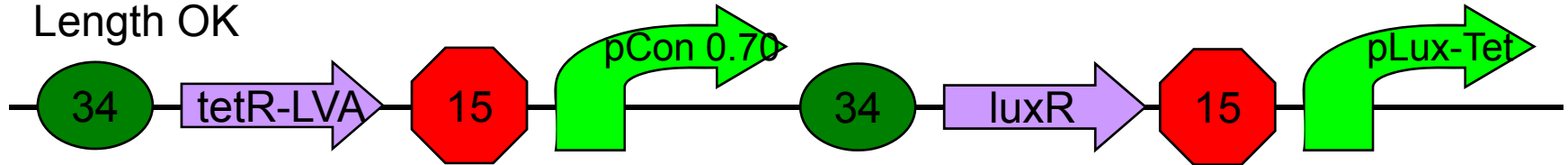
K176030 in pSB1A3
Sequence ?



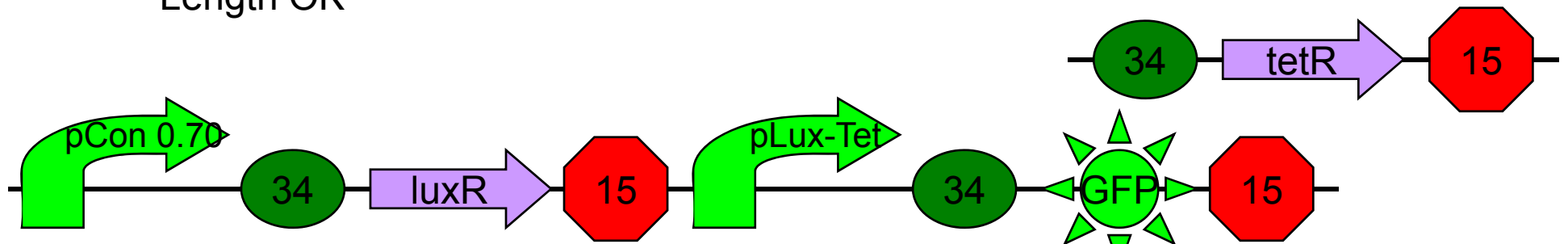
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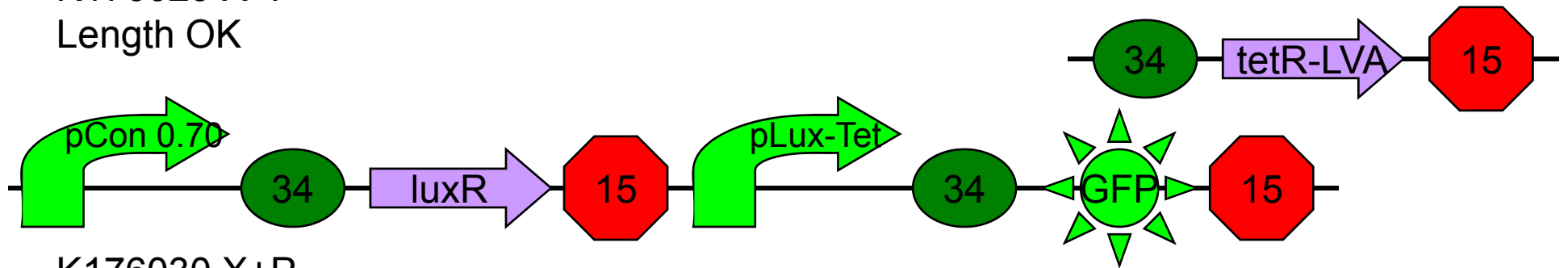
K176031 X+P
Length OK



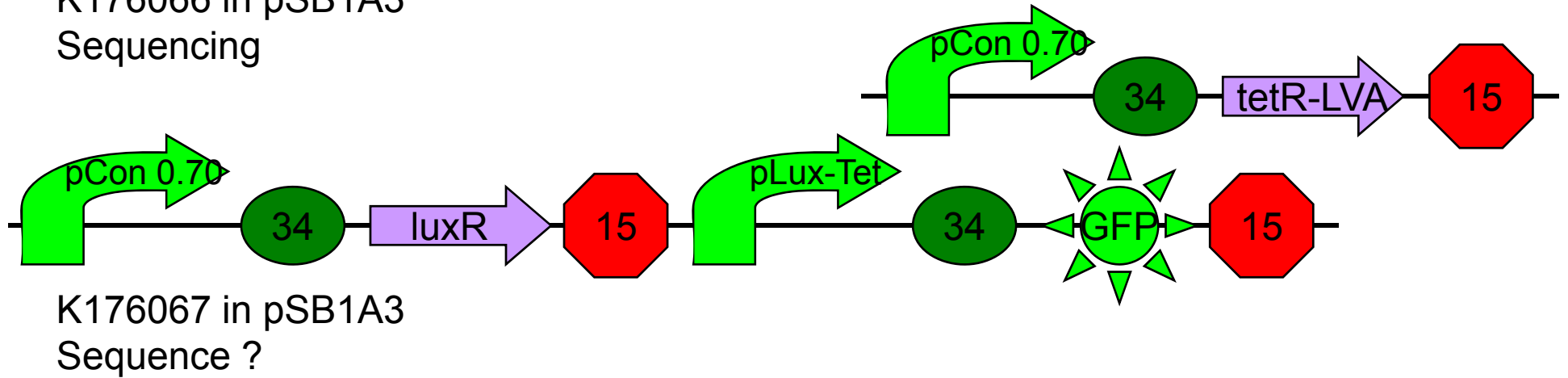
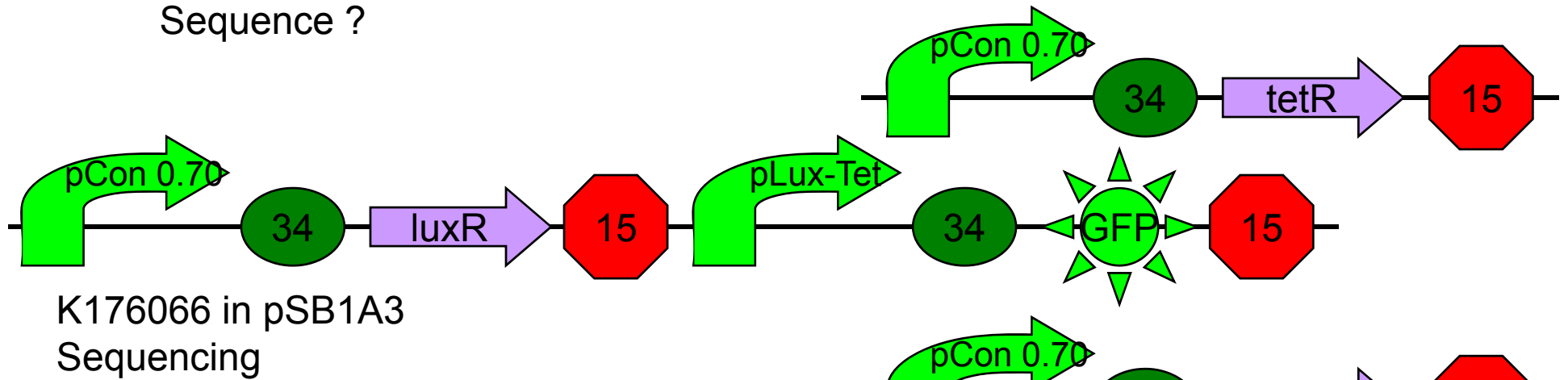
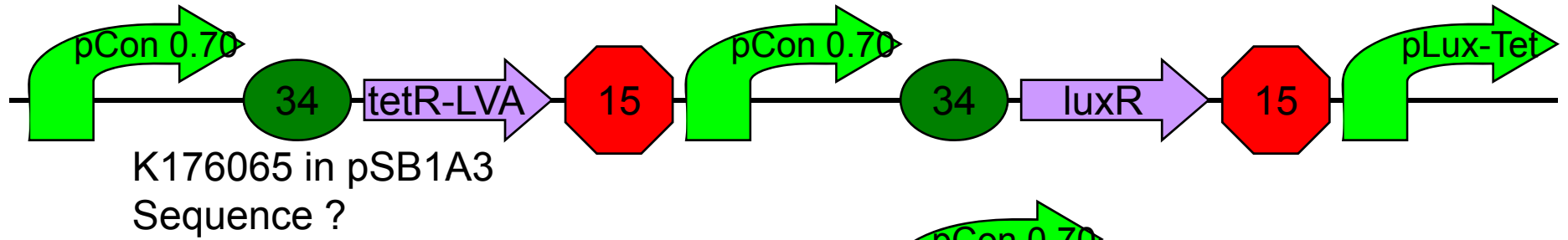
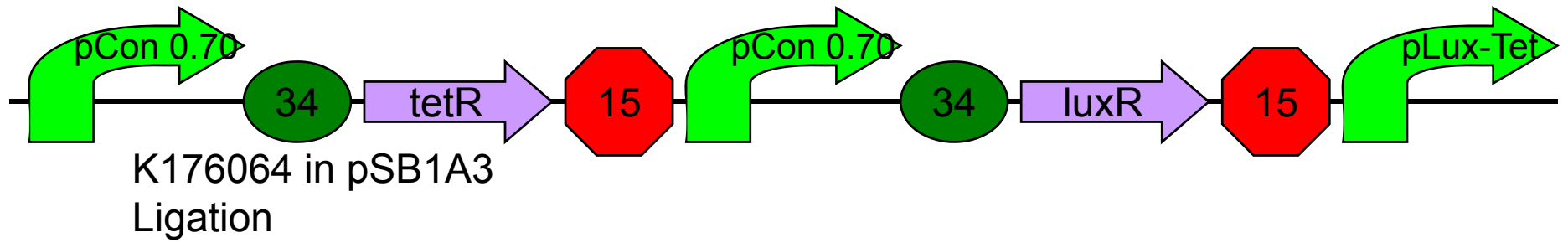
K176032 X+P
Length OK

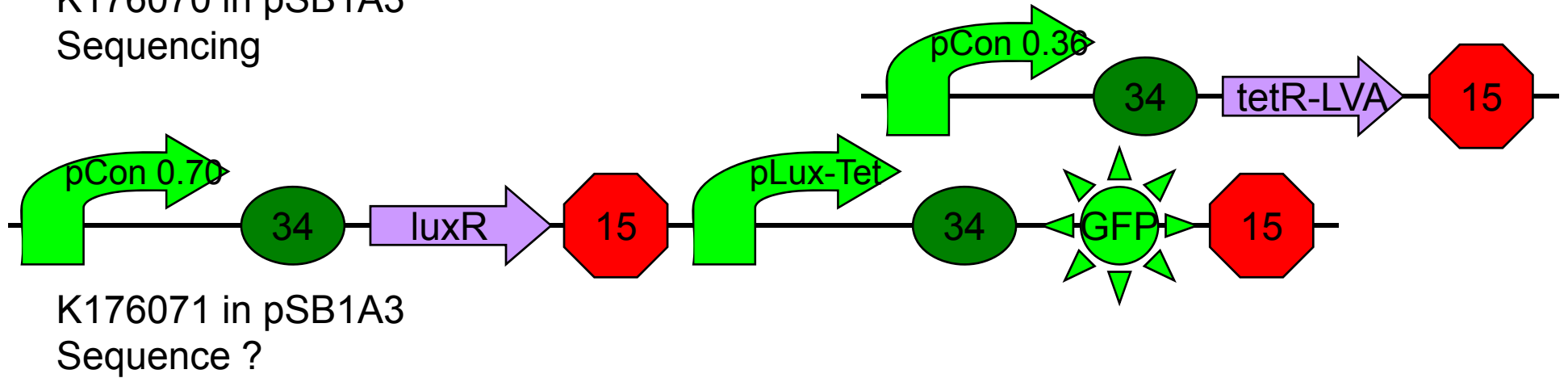
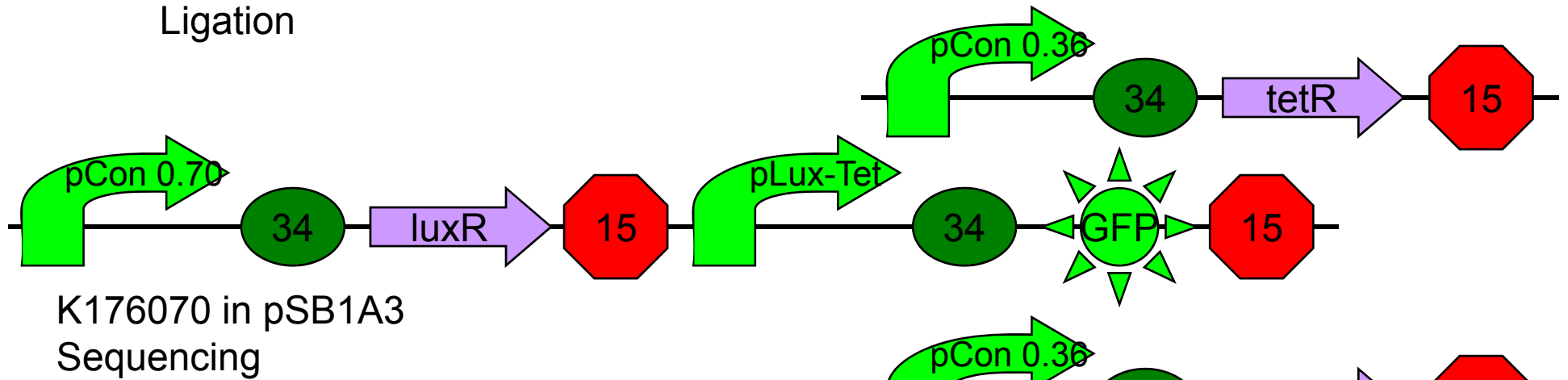
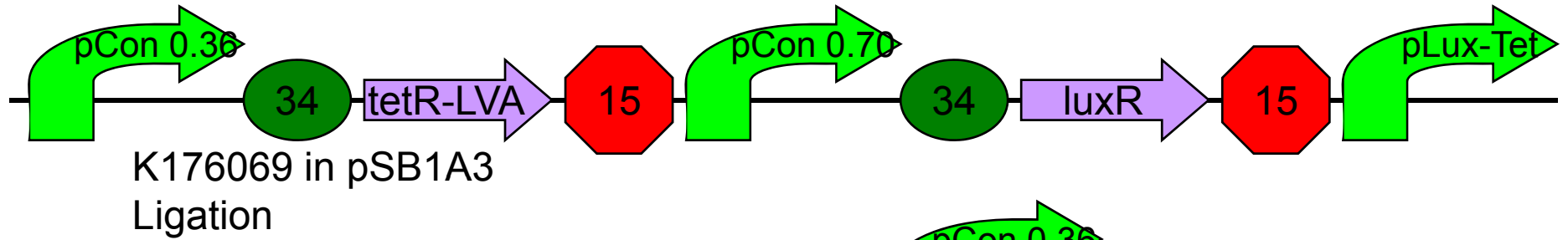
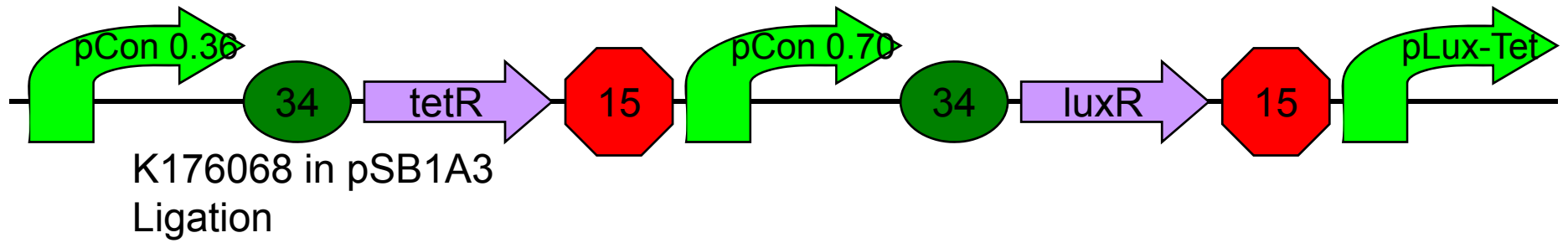


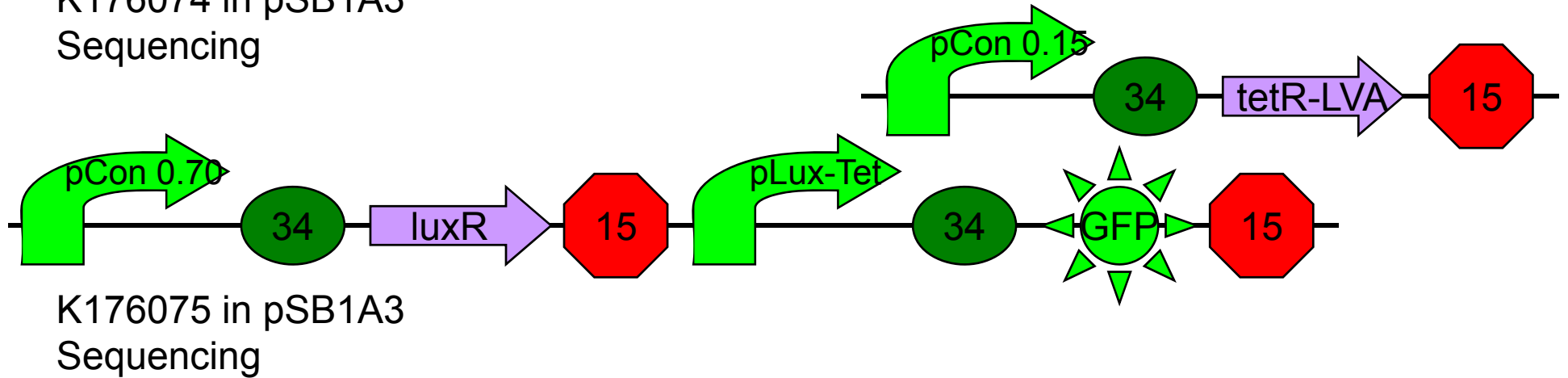
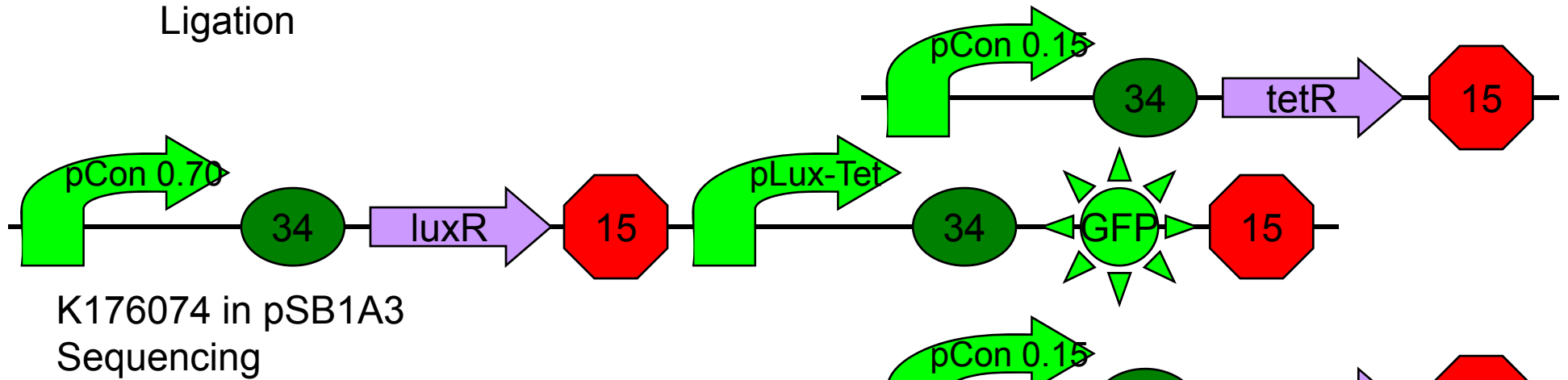
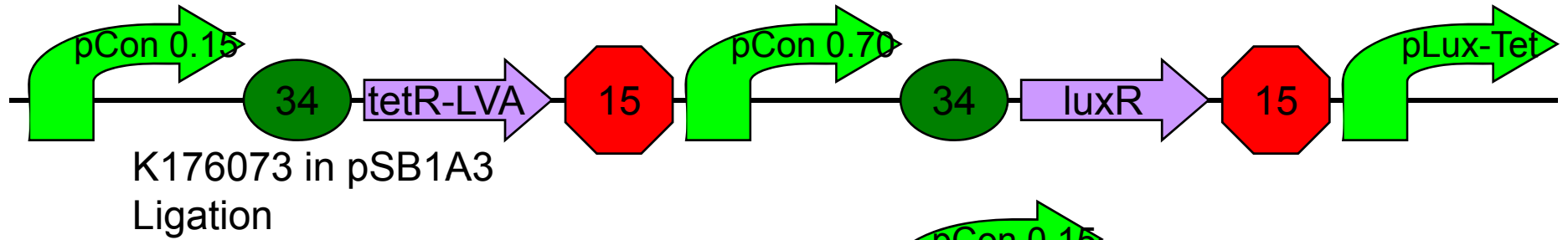
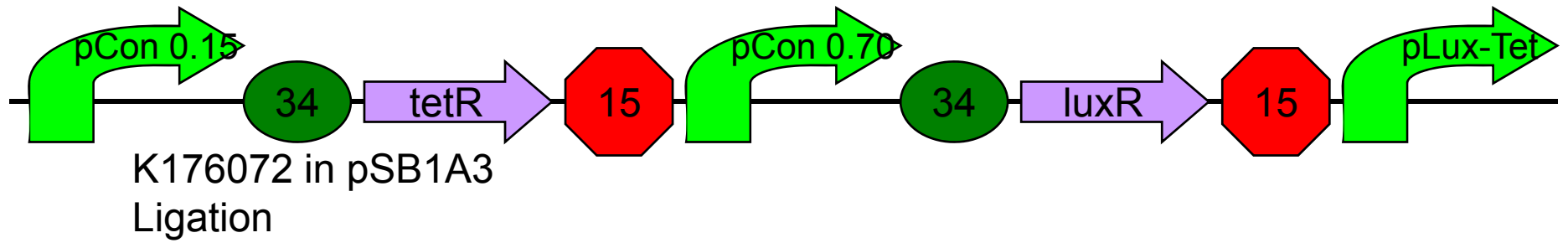
K176029 X+P
Length OK

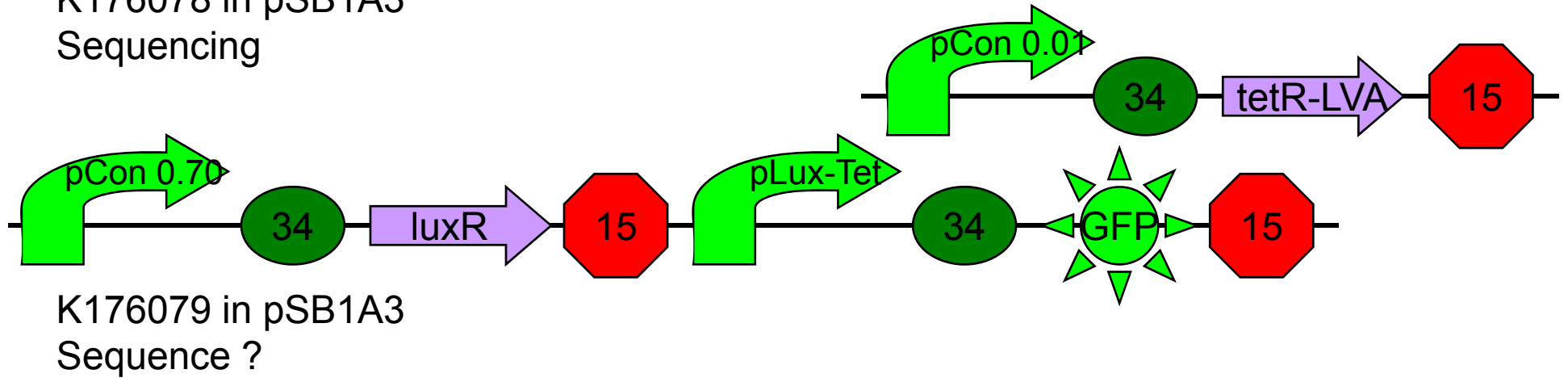
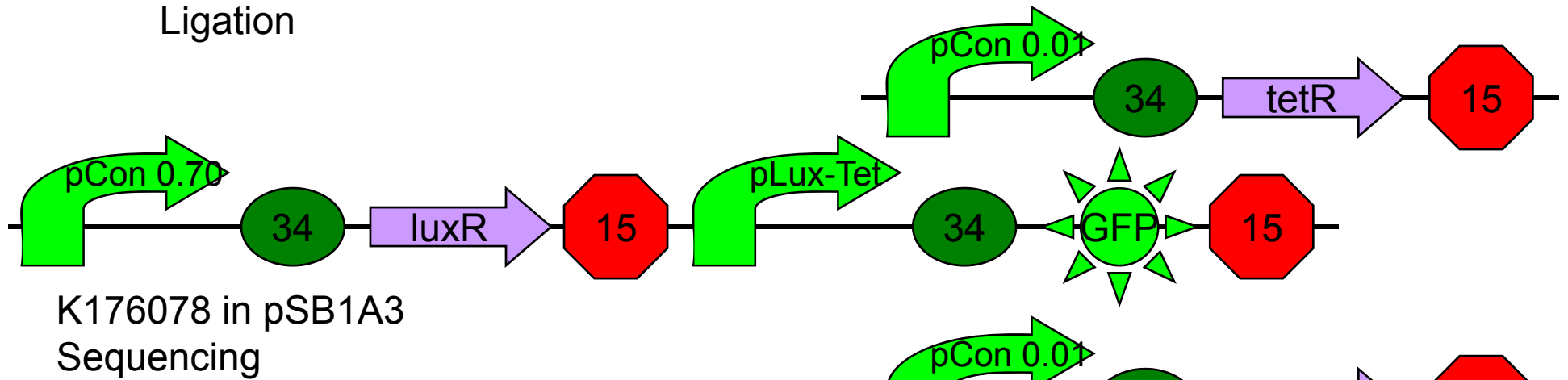
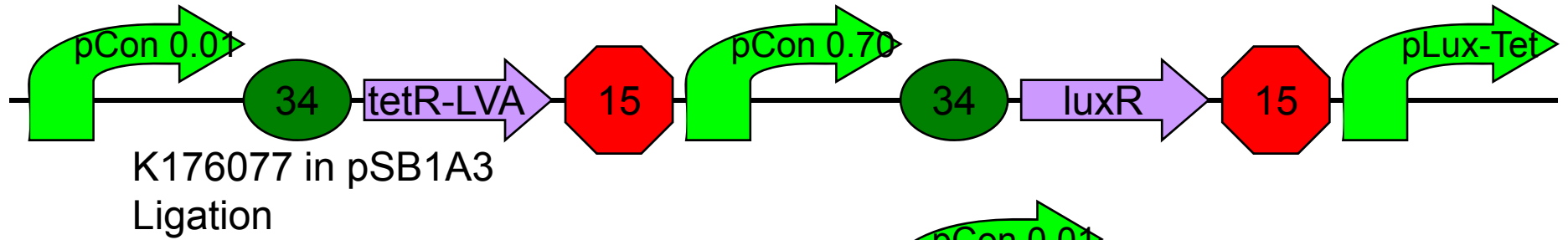
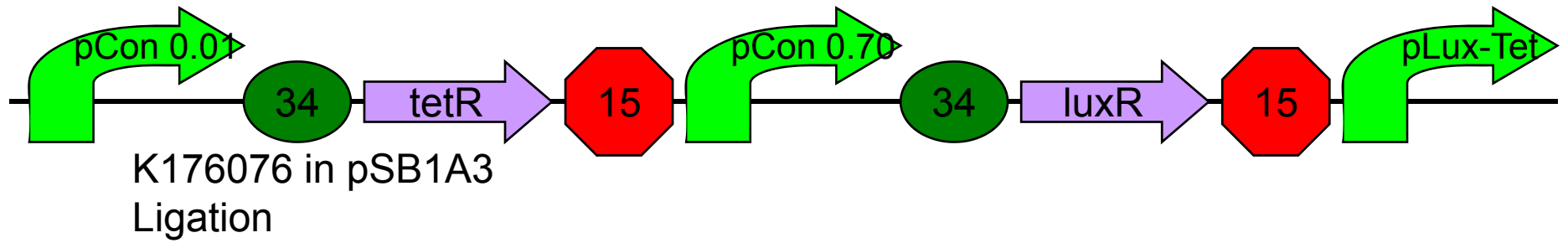


K176030 X+P
Length OK

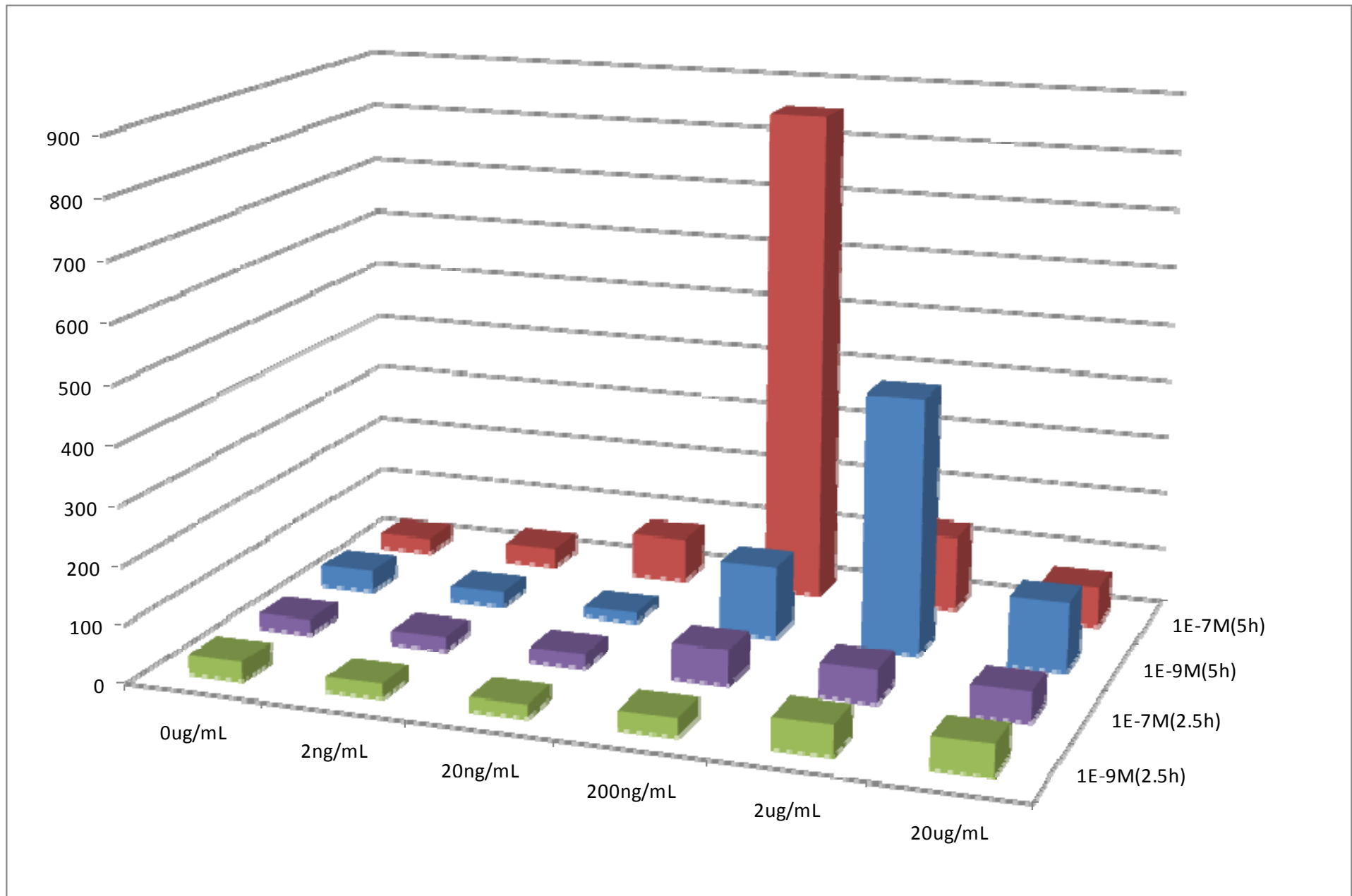




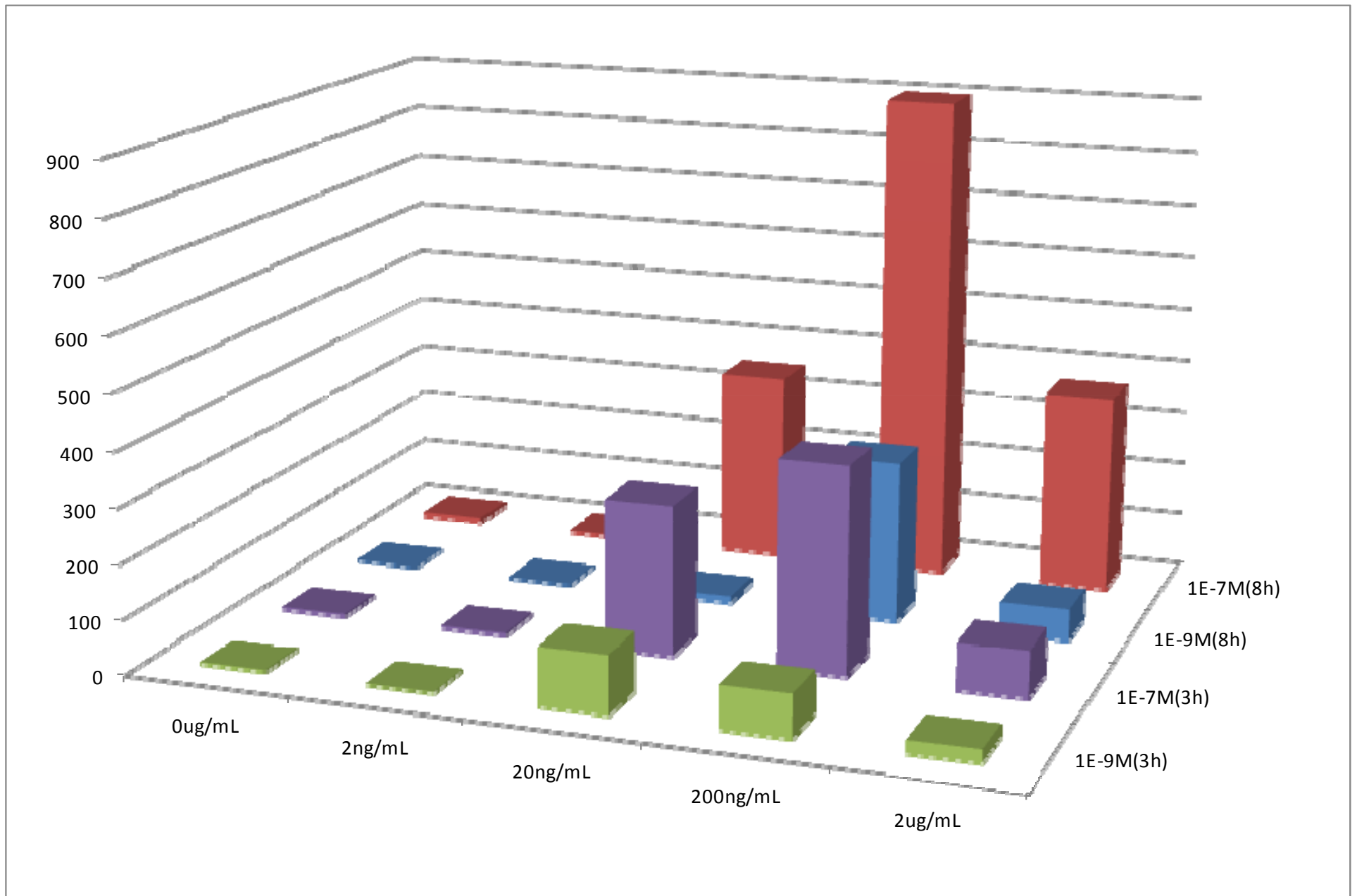




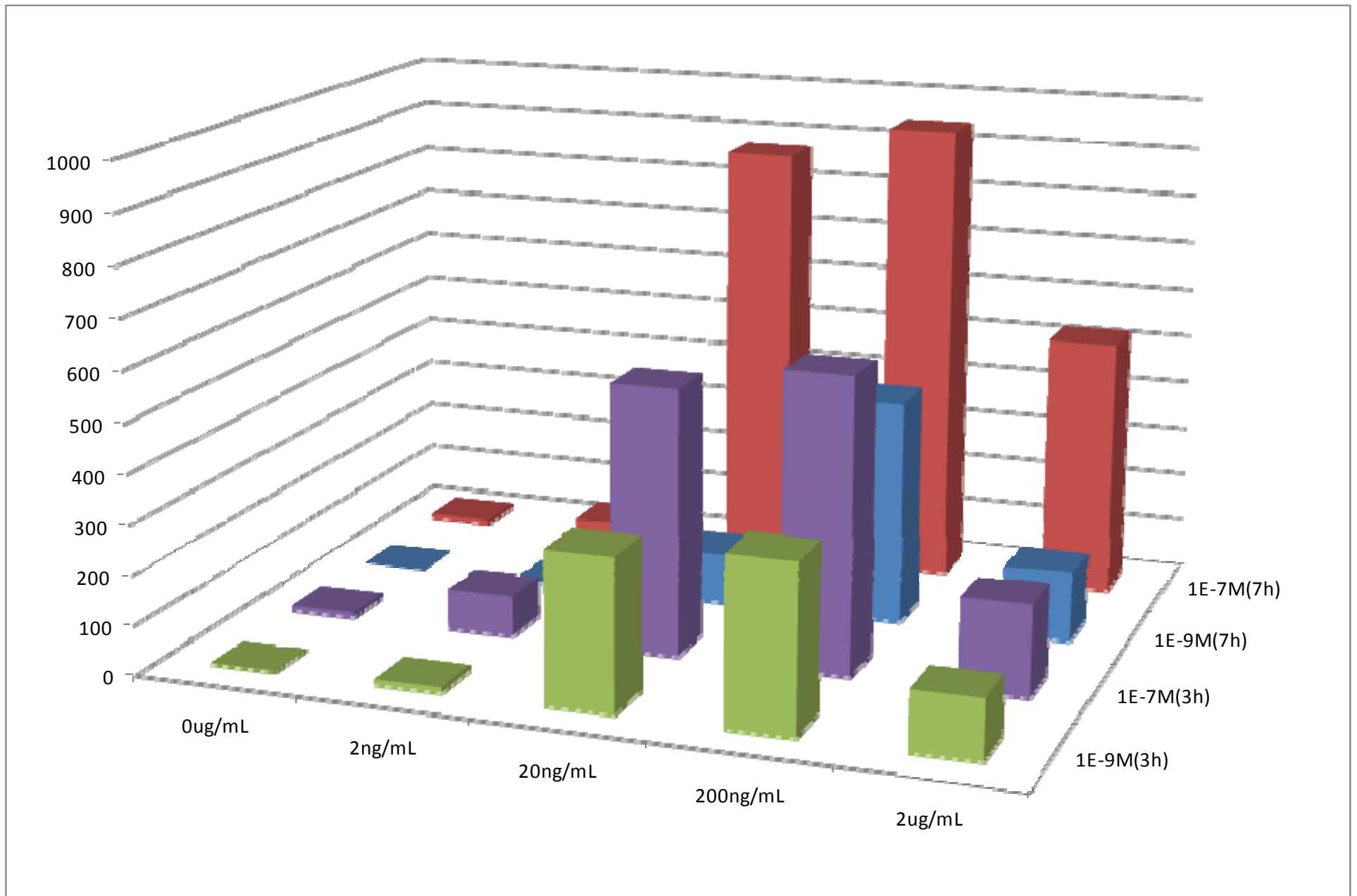
K176067 (7+30)

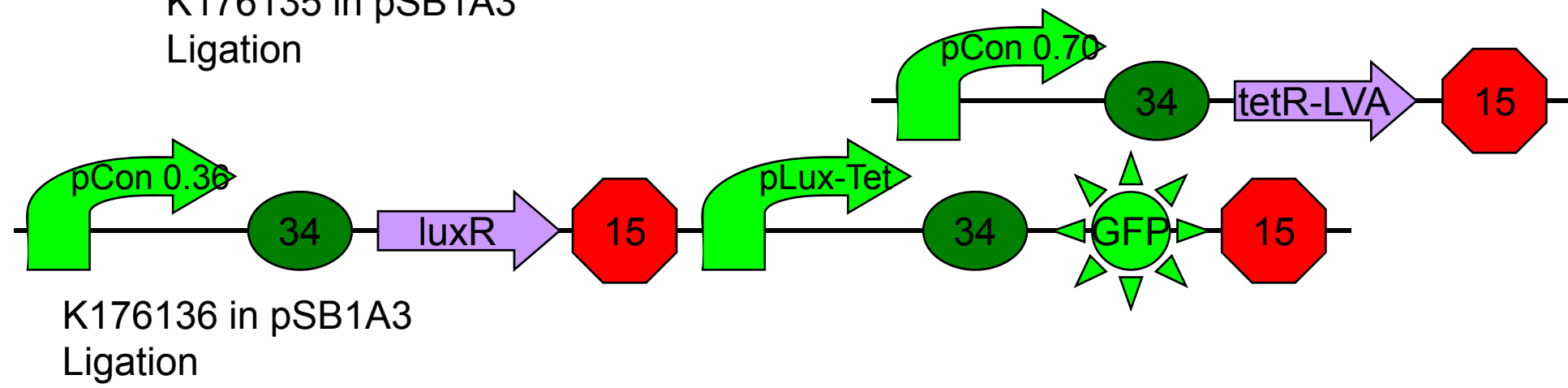
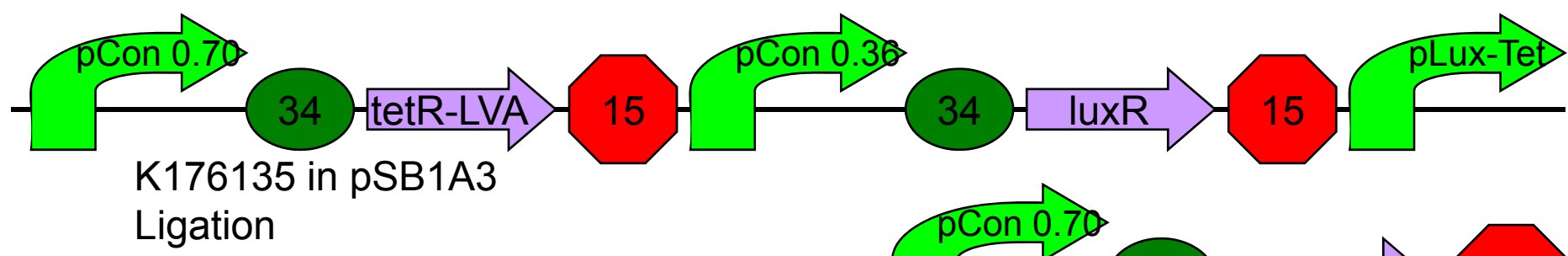
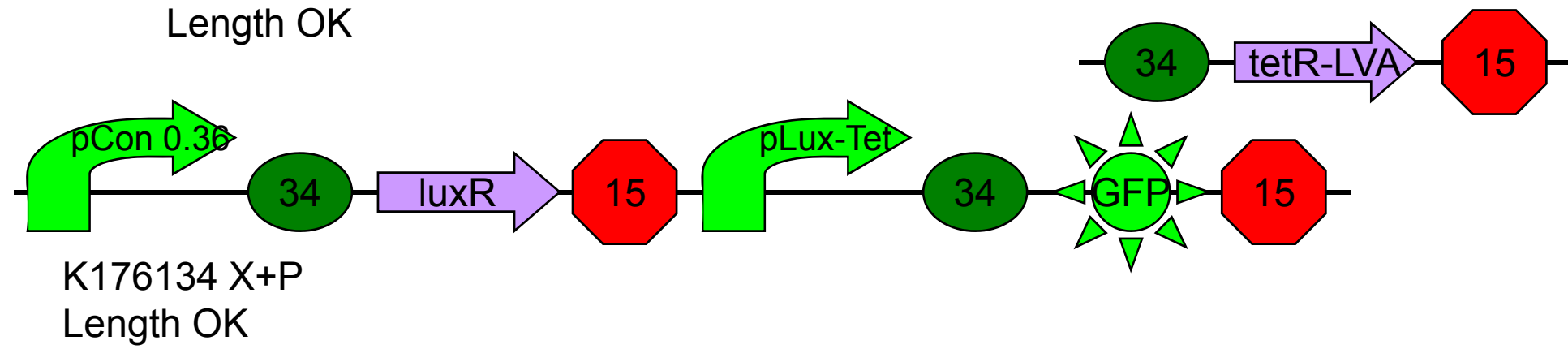
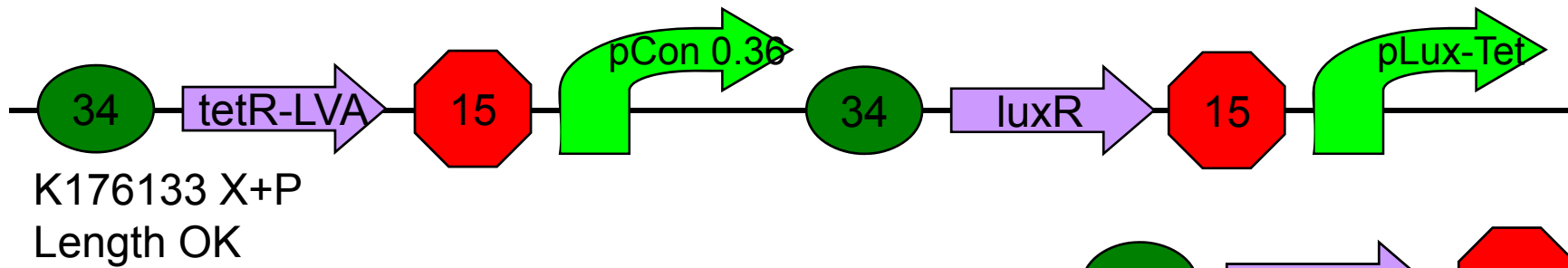


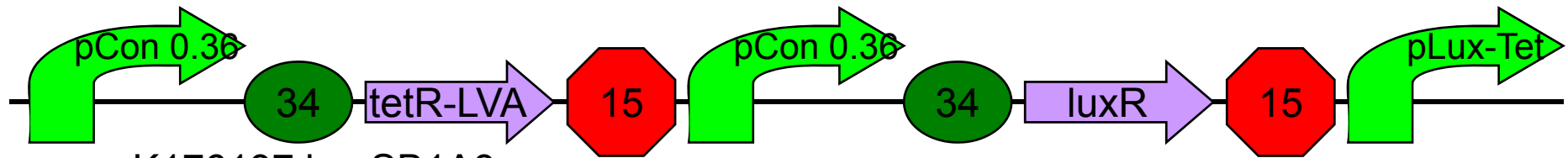
K176070 (9+29)



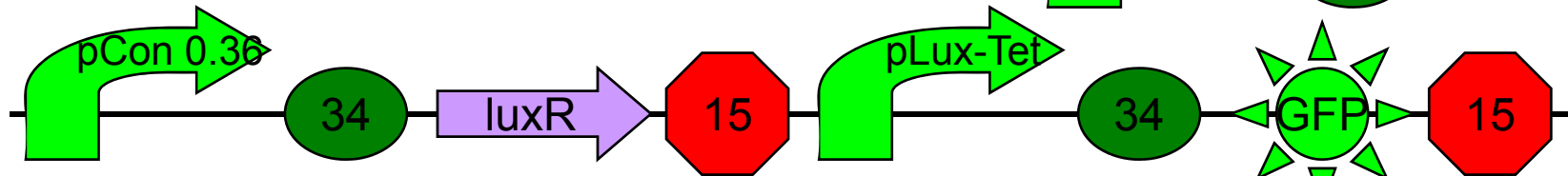
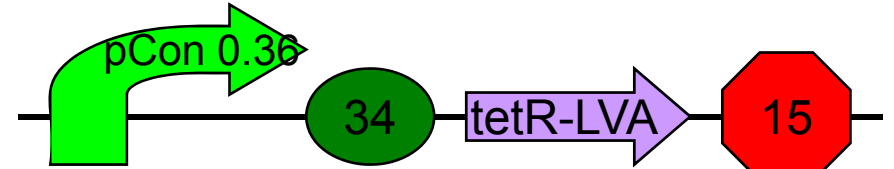
K176071 (9+30)



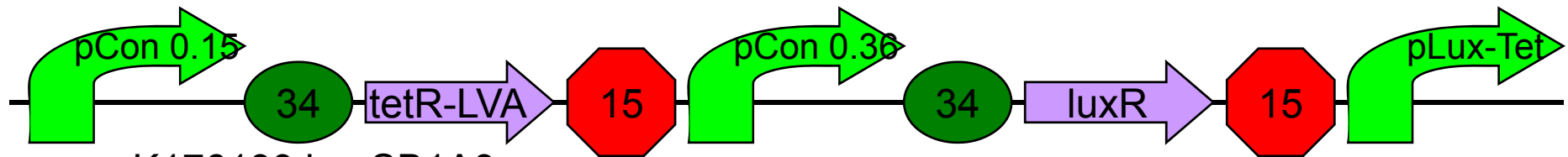




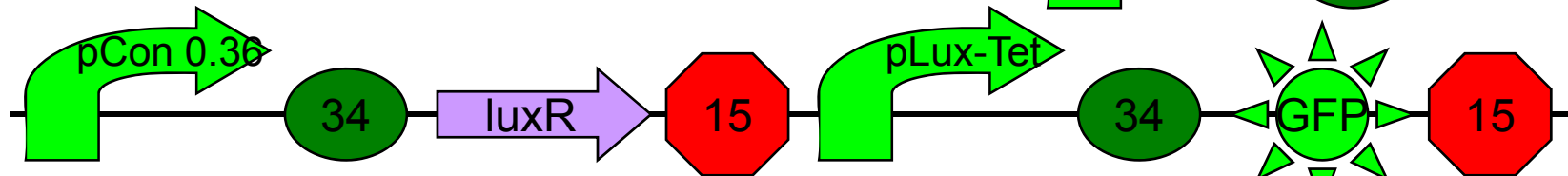
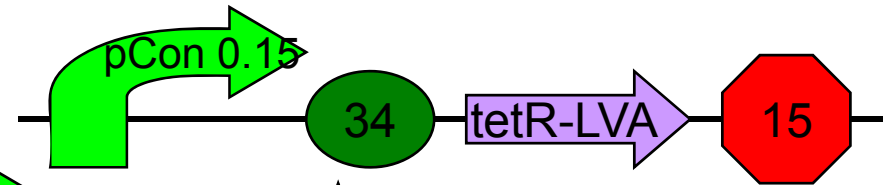
K176137 in pSB1A3
Ligation



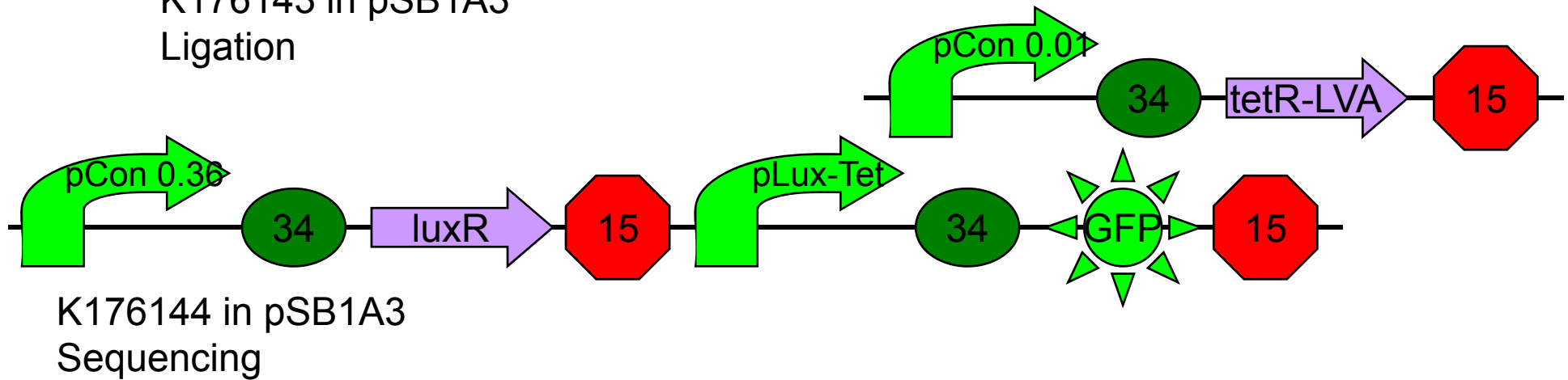
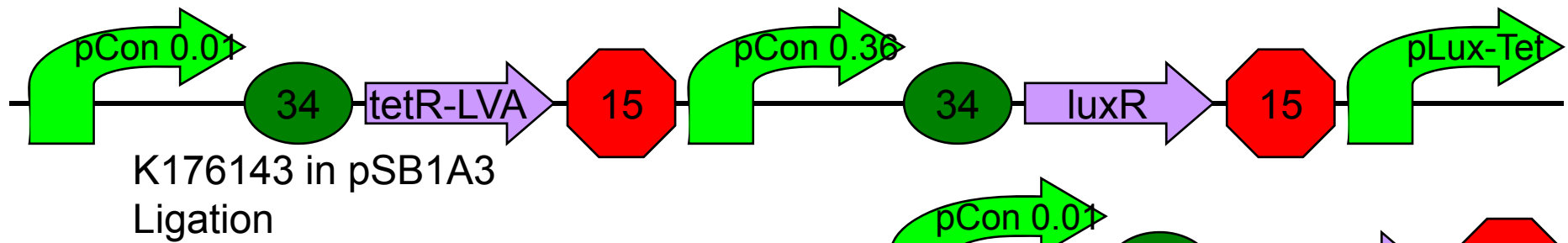
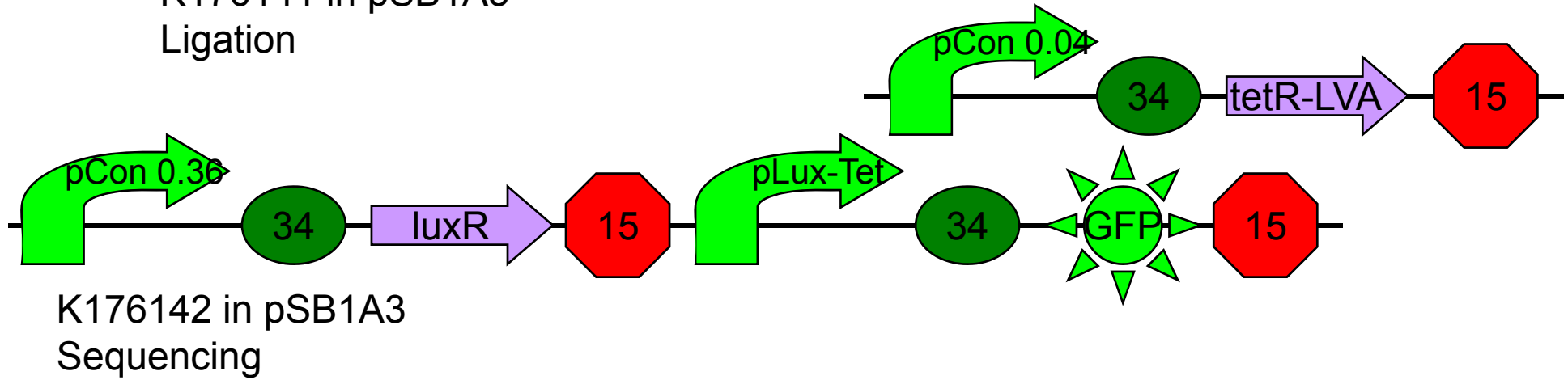
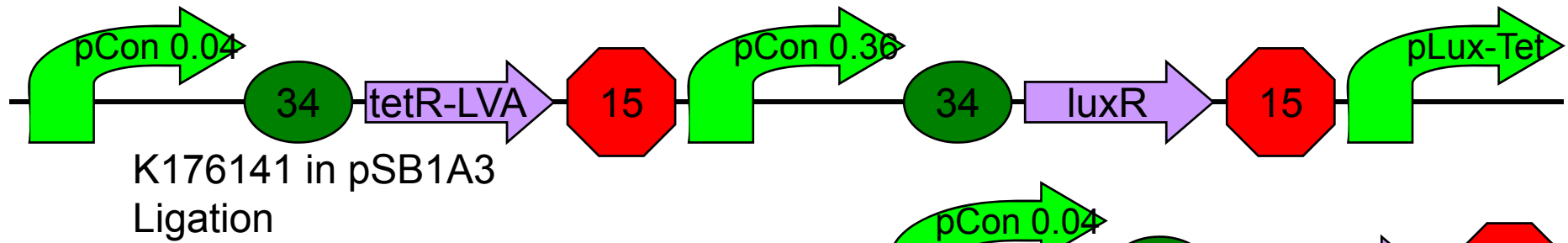
K176138 in pSB1A3
Sequencing

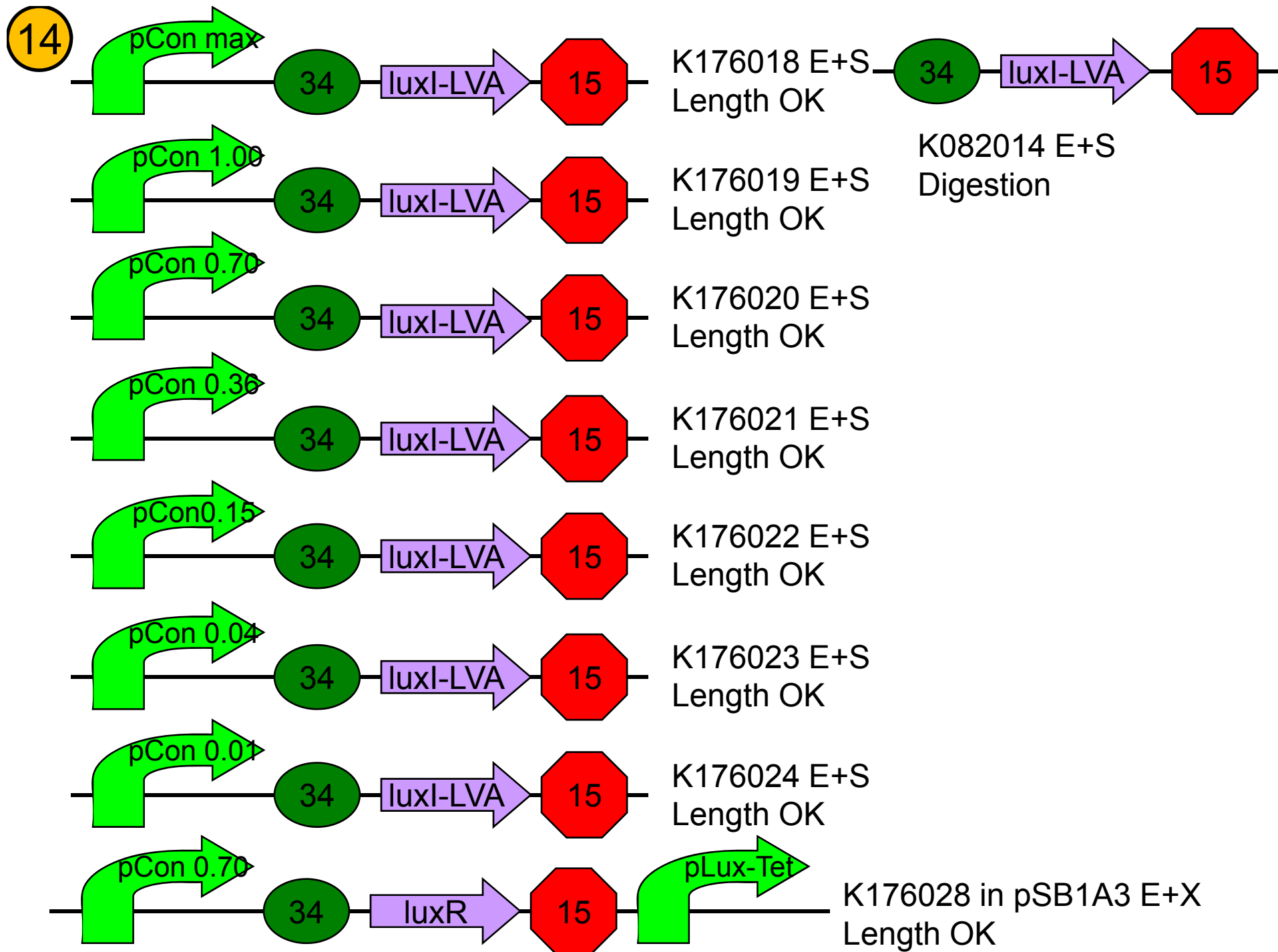


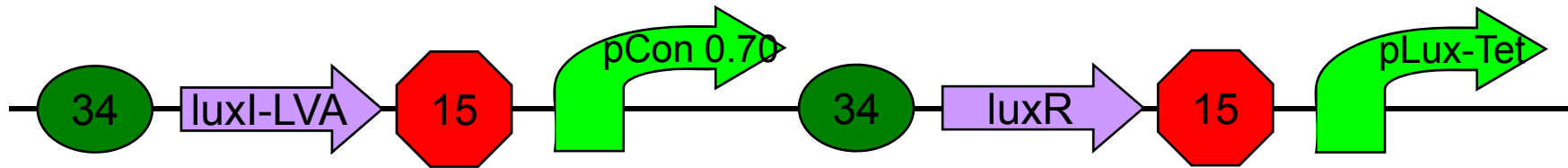
K176139 in pSB1A3
Ligation



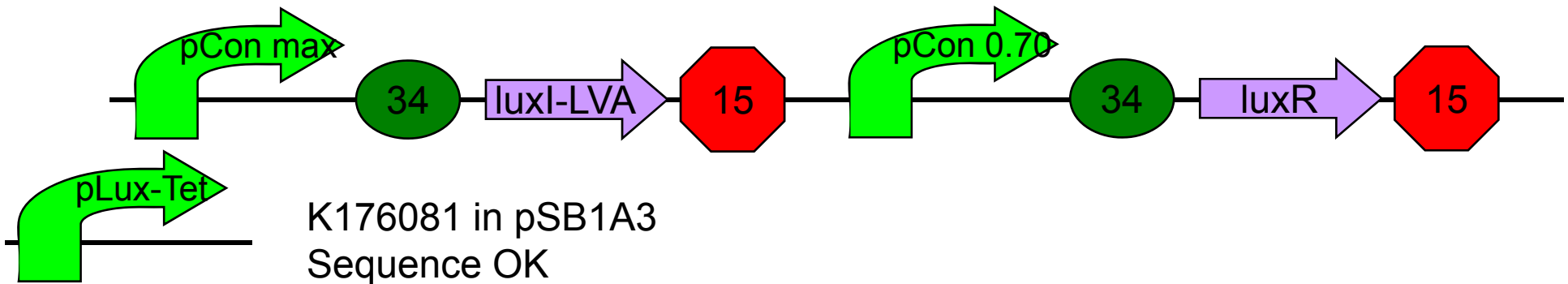
K176140 in pSB1A3
Sequencing



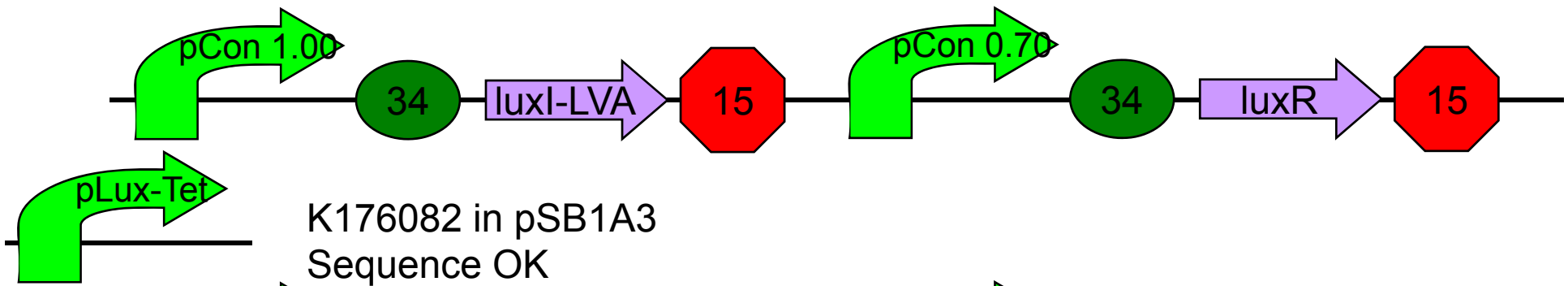




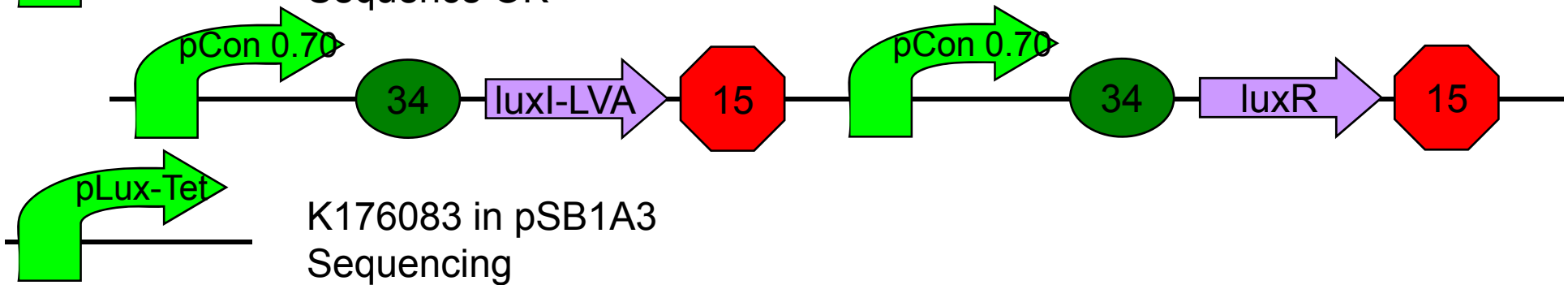
K176080 in pSB1A3
Waiting



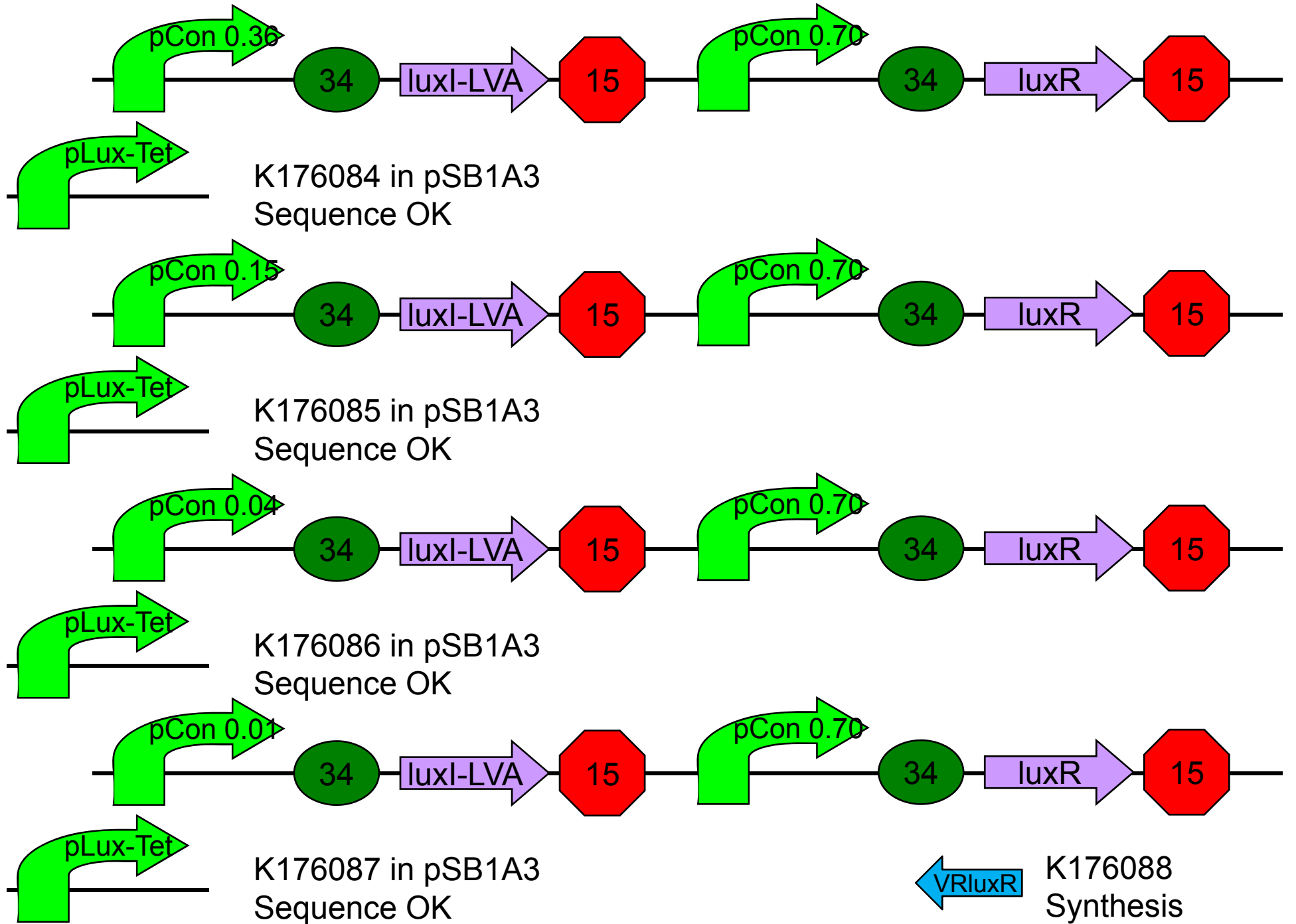
K176081 in pSB1A3
Sequence OK

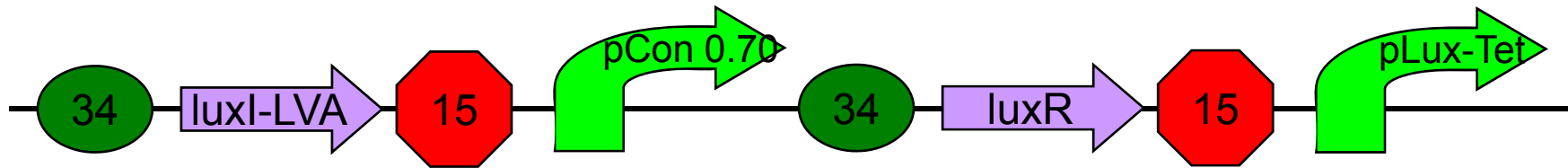


K176082 in pSB1A3
Sequence OK

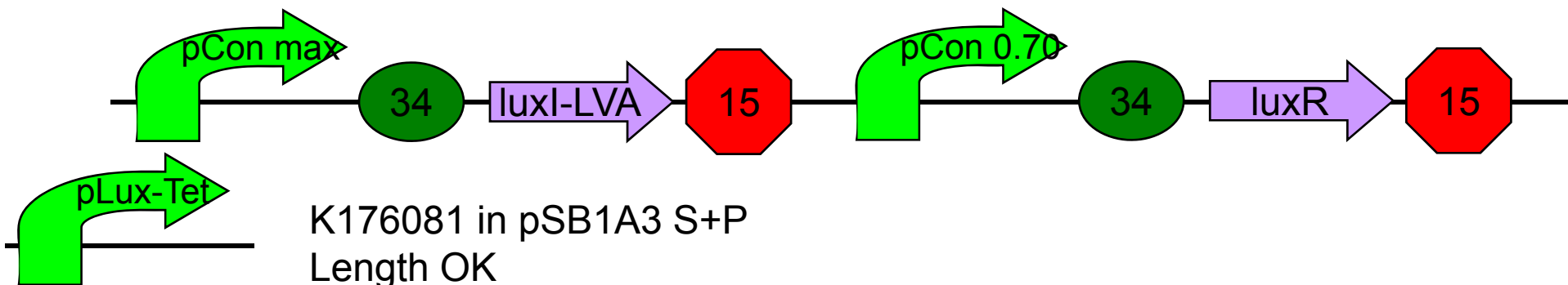


K176083 in pSB1A3
Sequencing

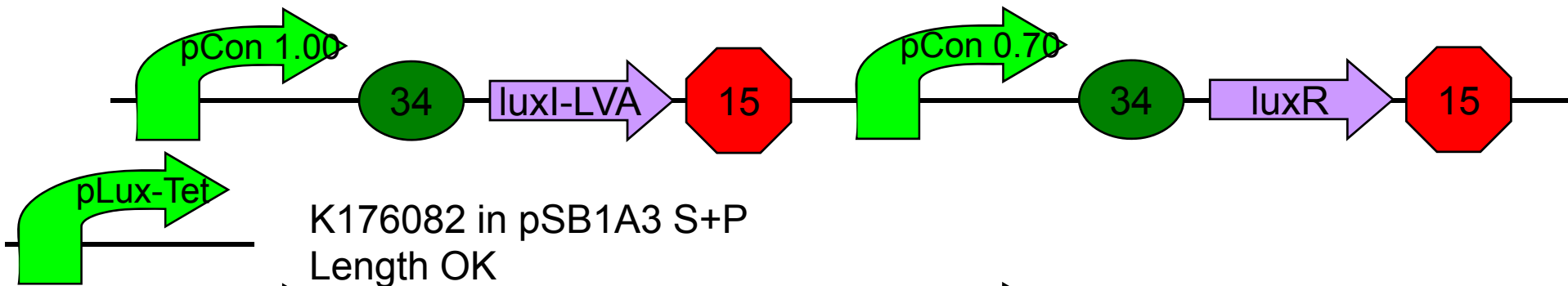




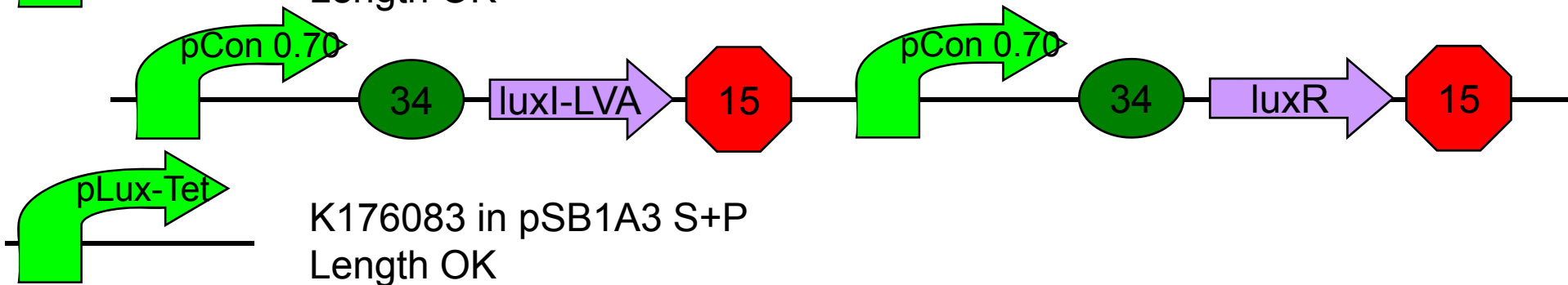
K176080 in pSB1A3 S+P
Waiting



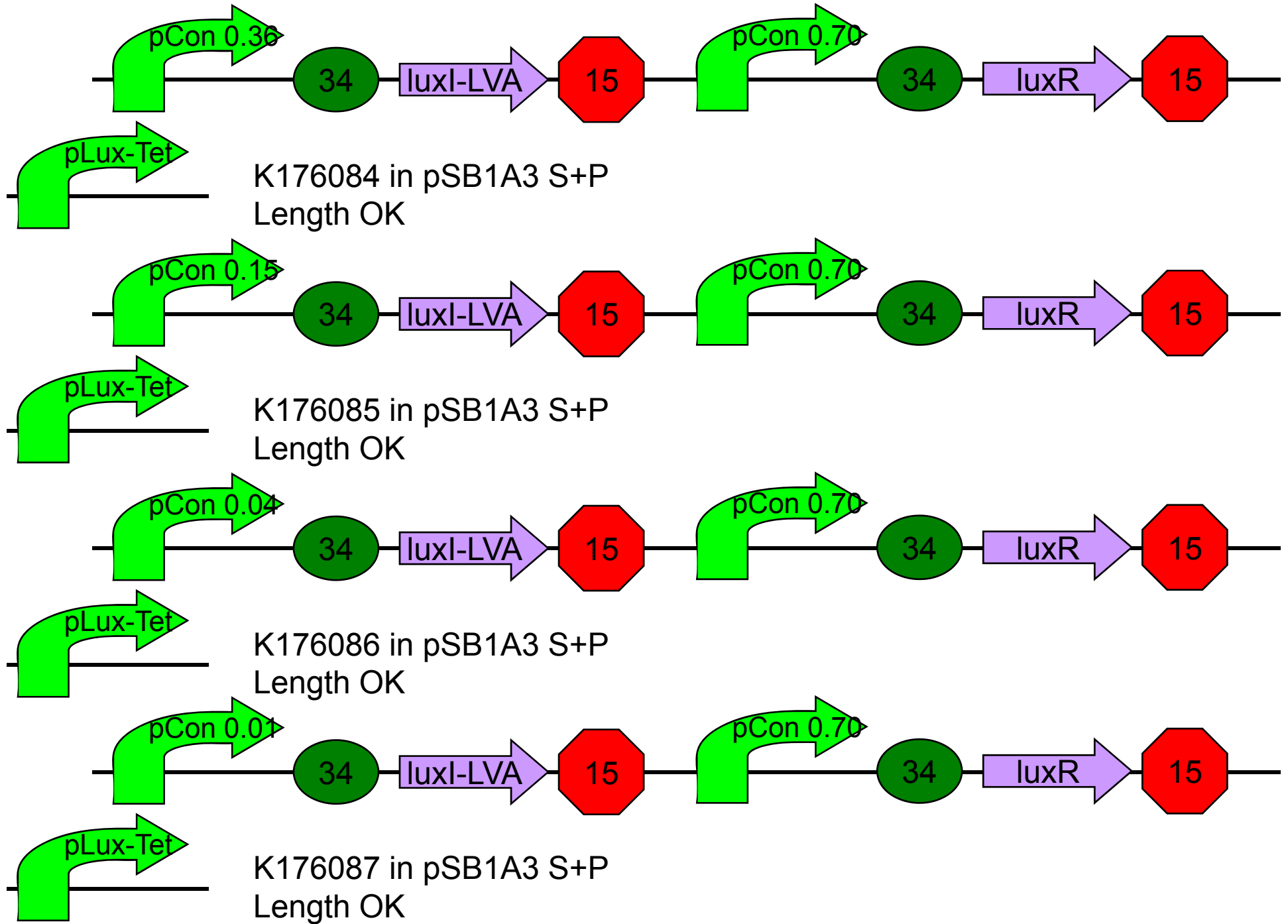
K176081 in pSB1A3 S+P
Length OK

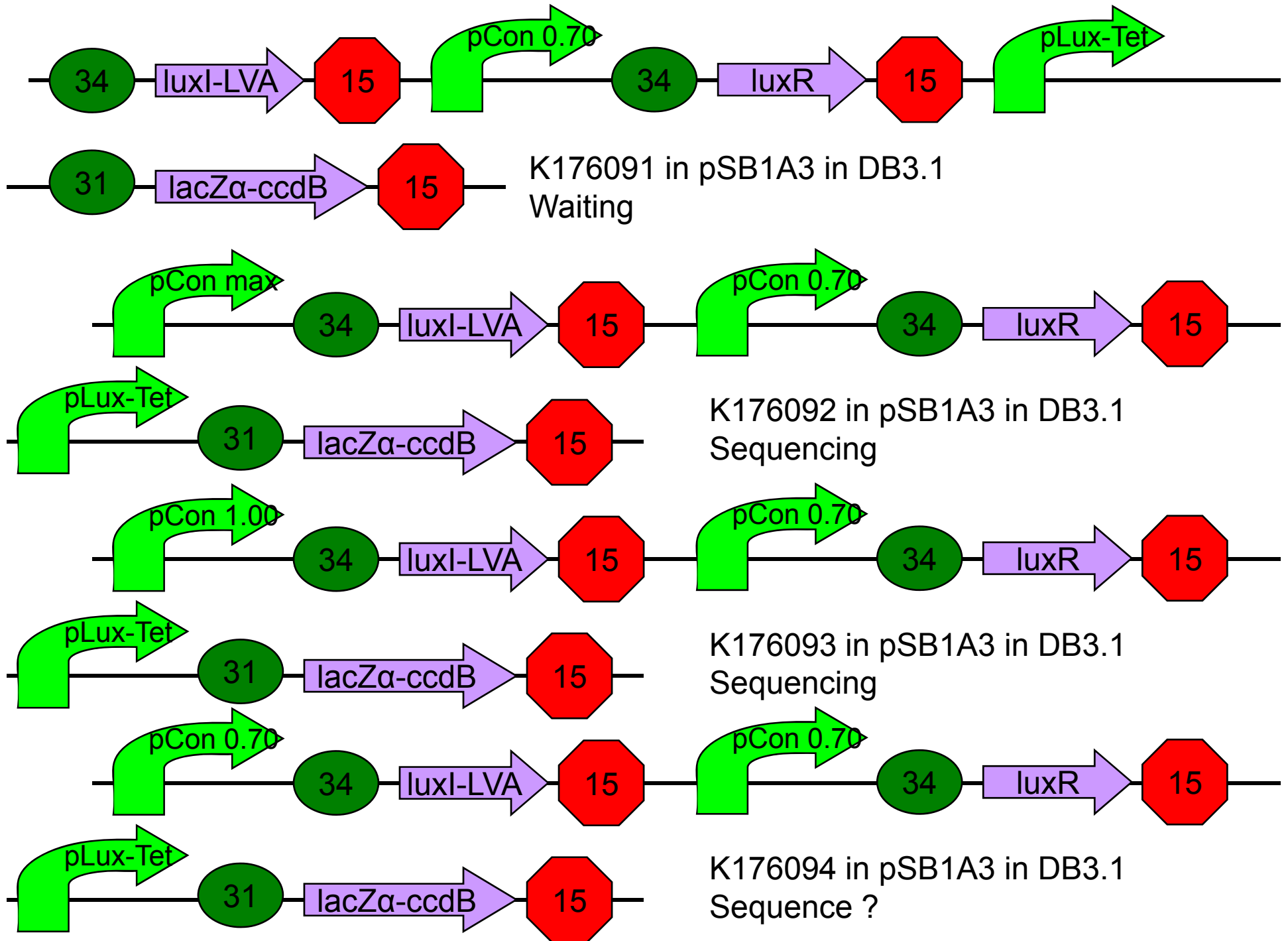


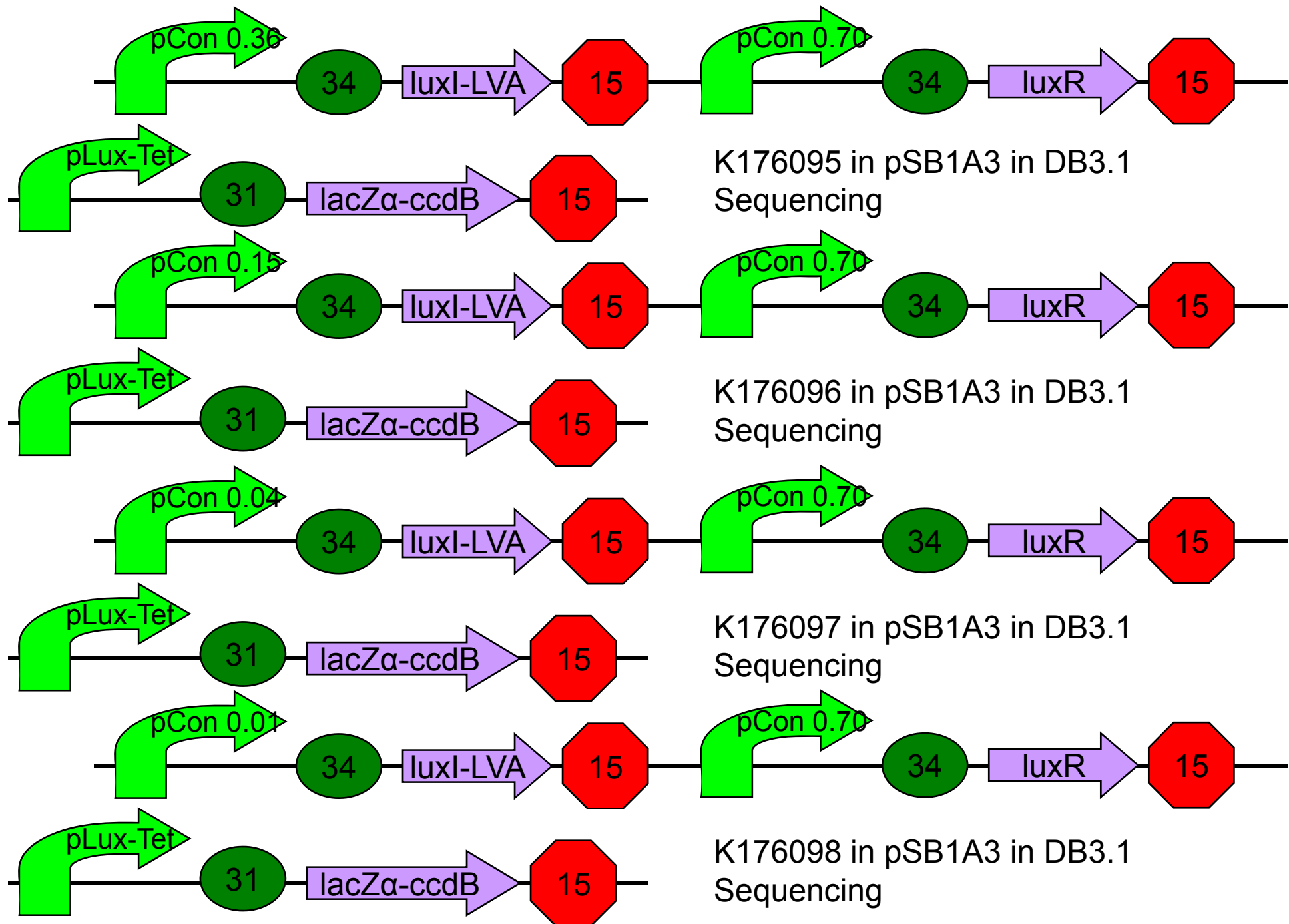
K176082 in pSB1A3 S+P
Length OK

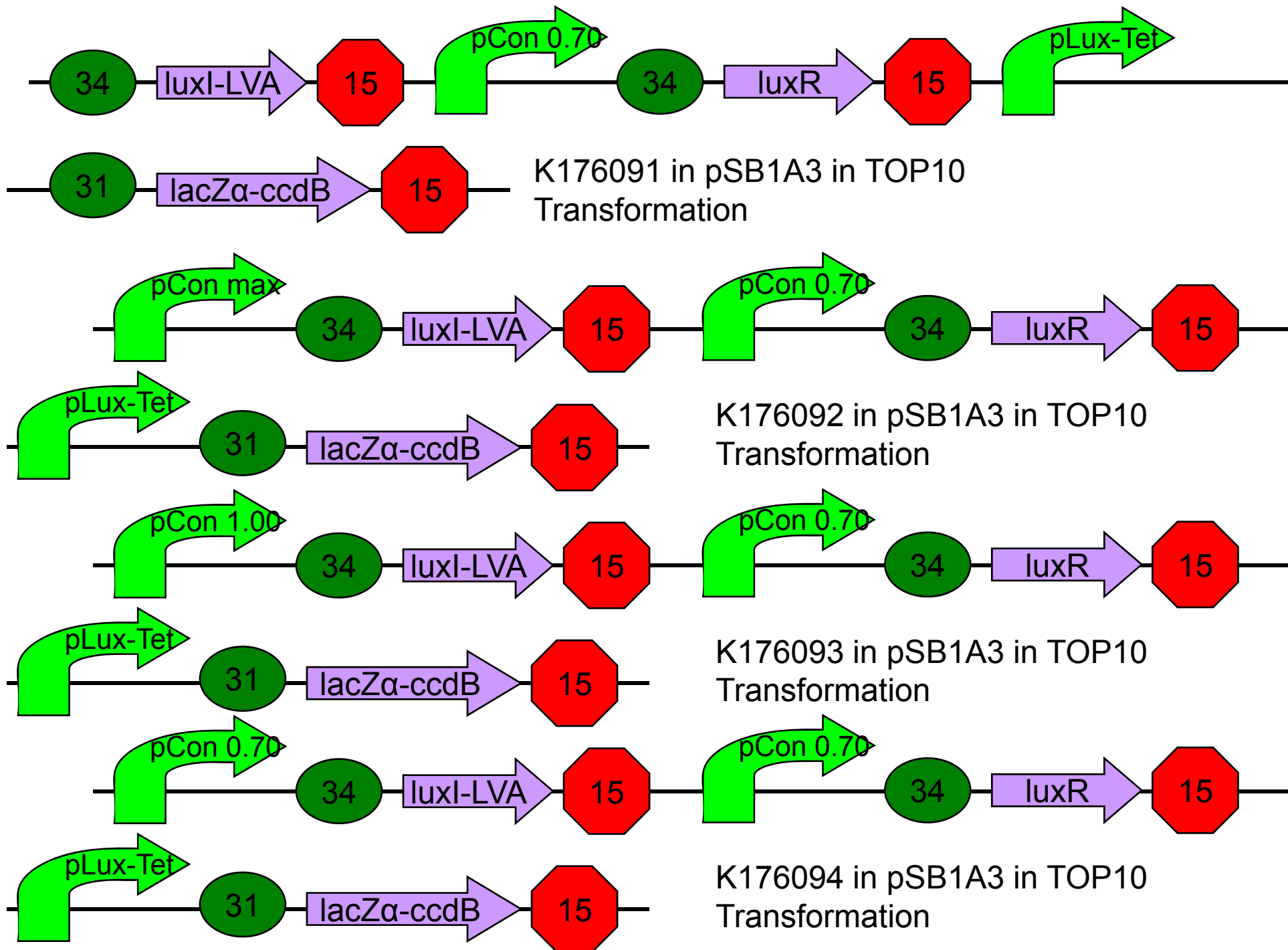


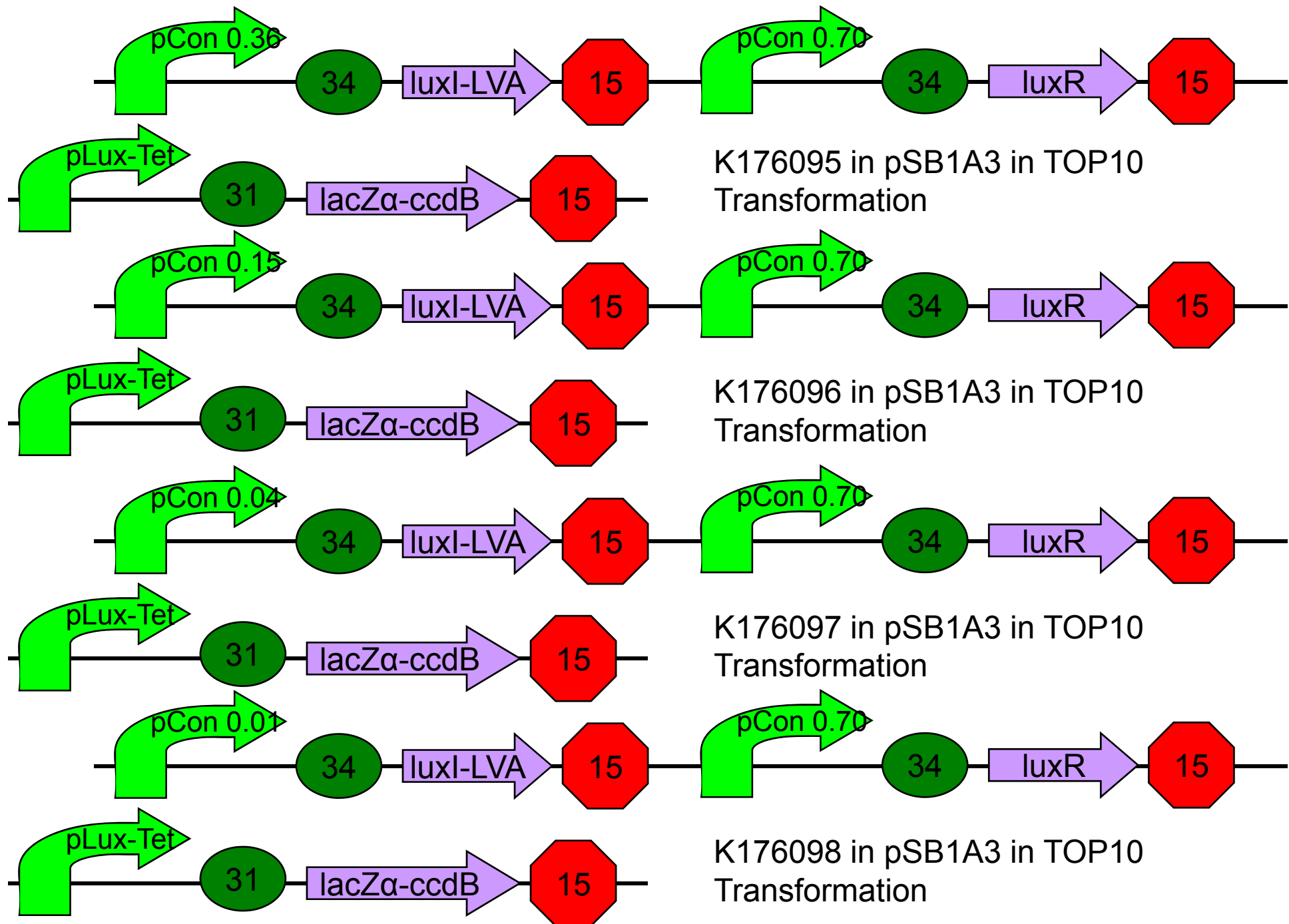
K176083 in pSB1A3 S+P
Length OK

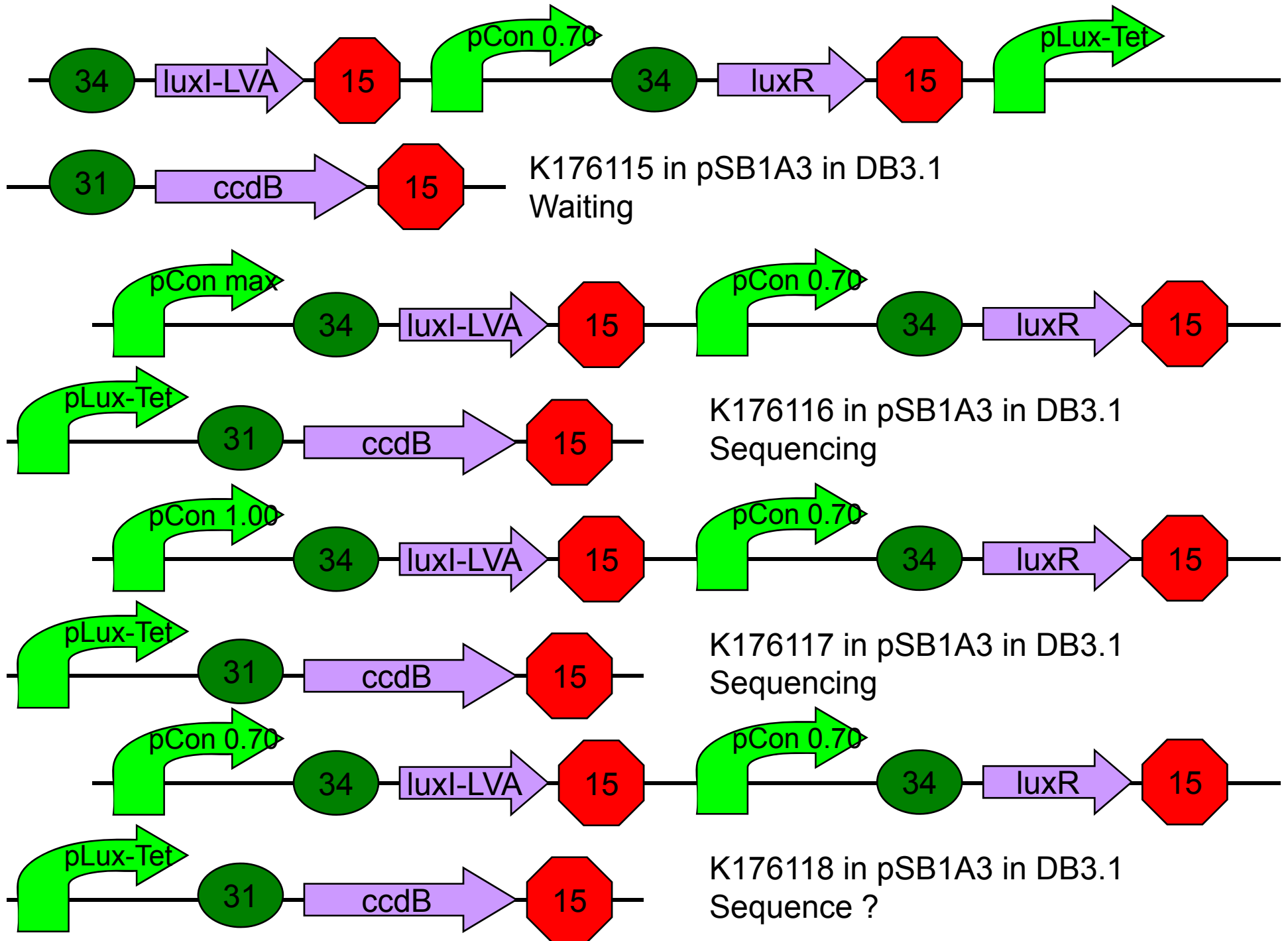


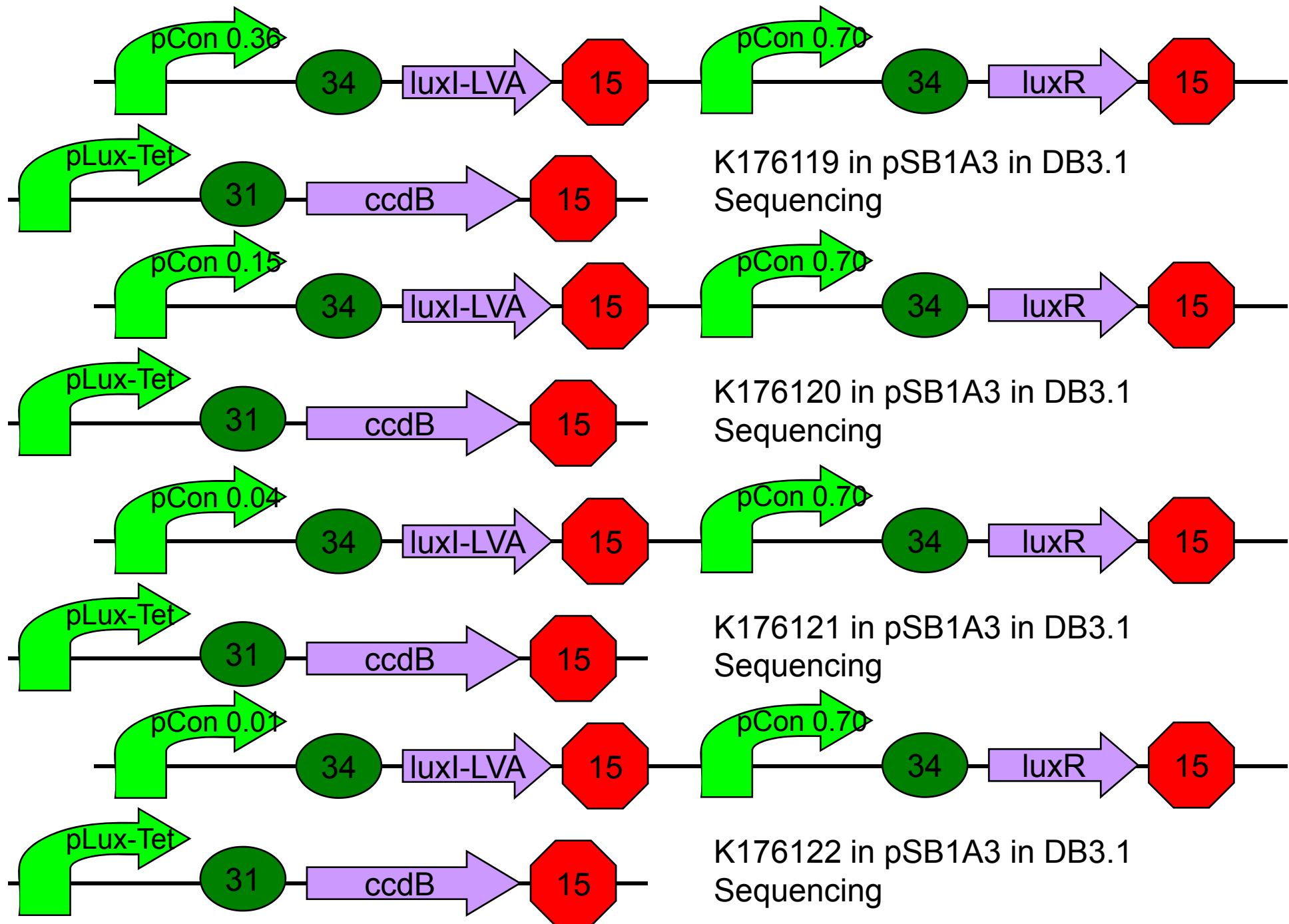


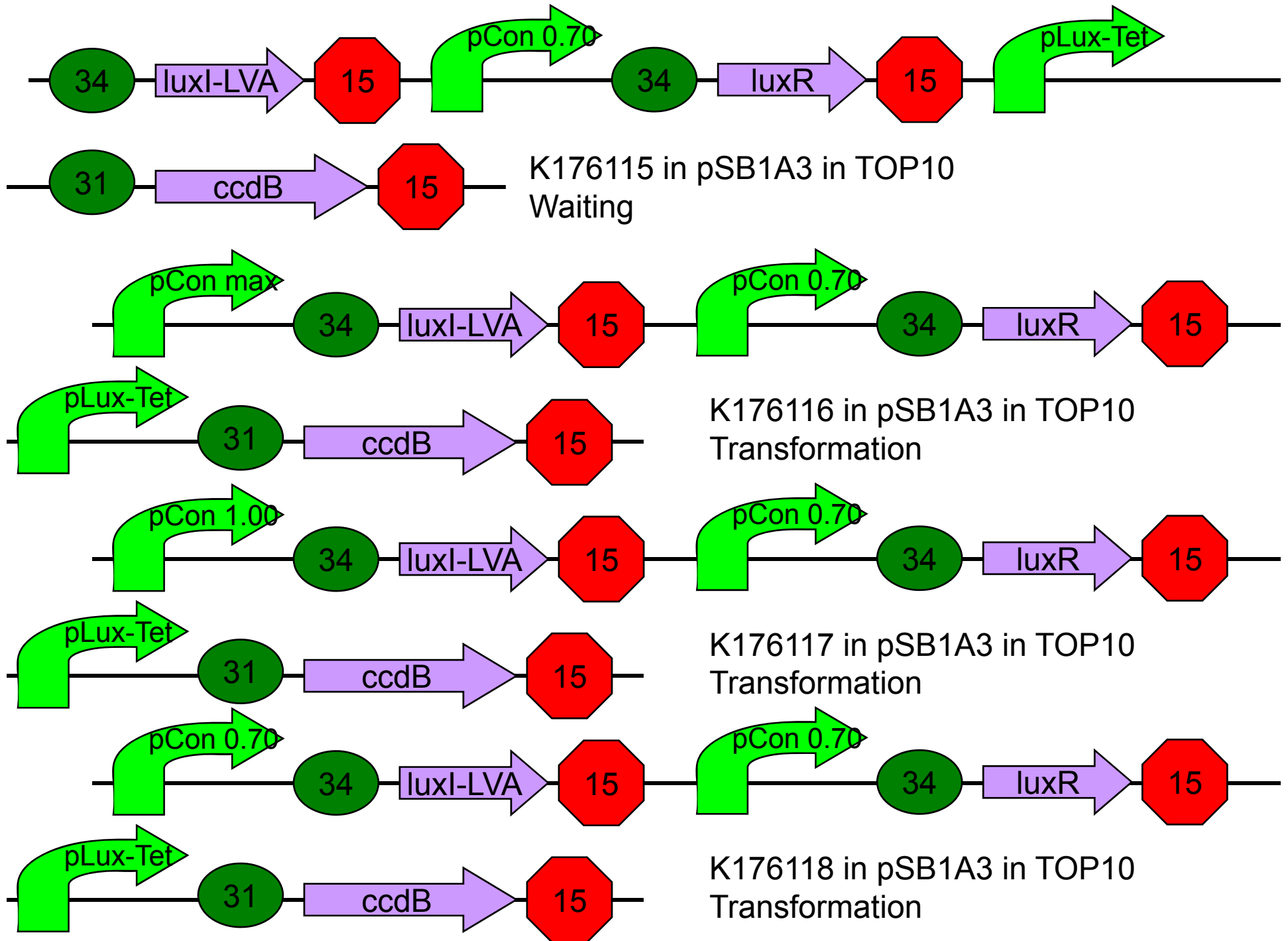


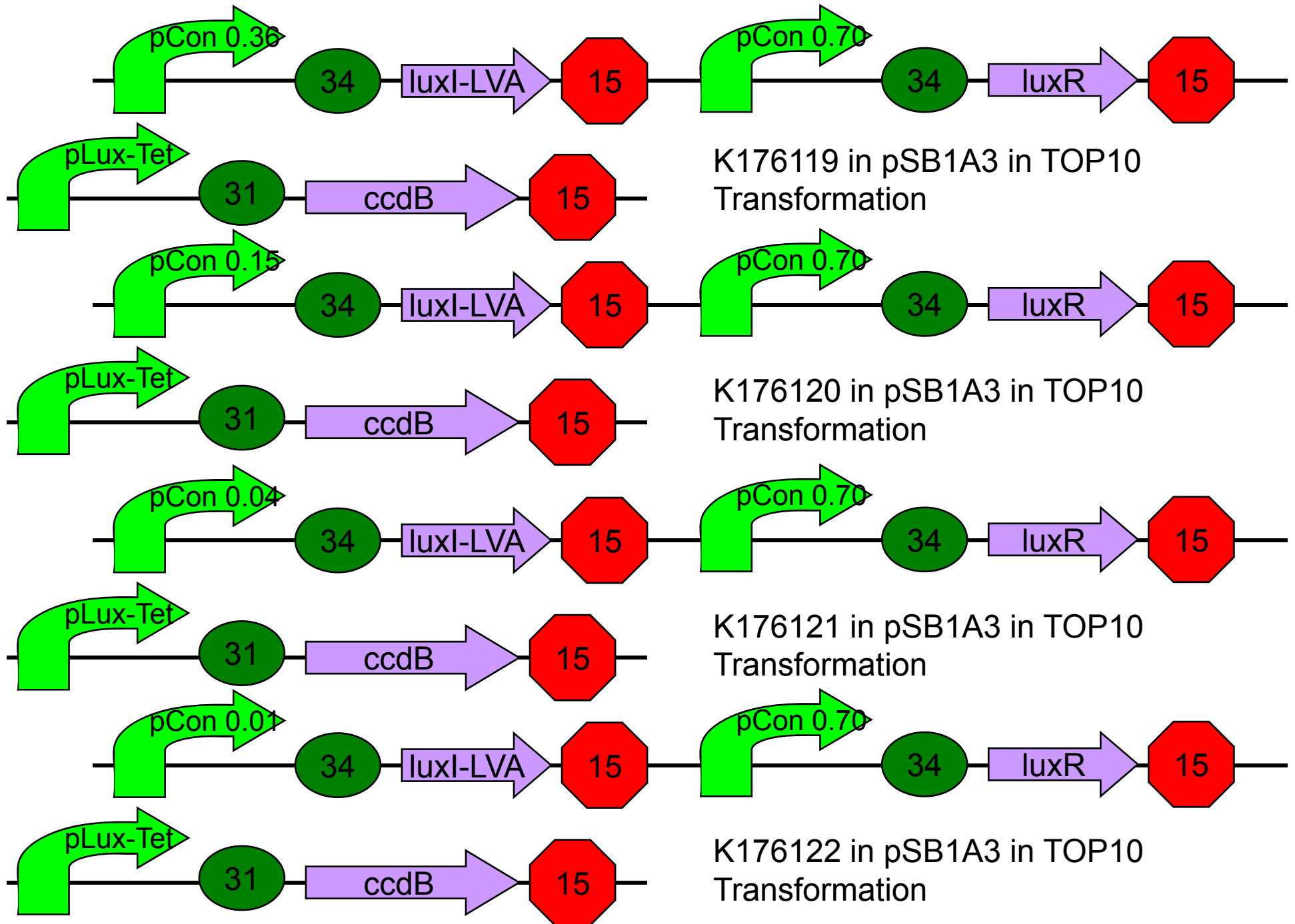


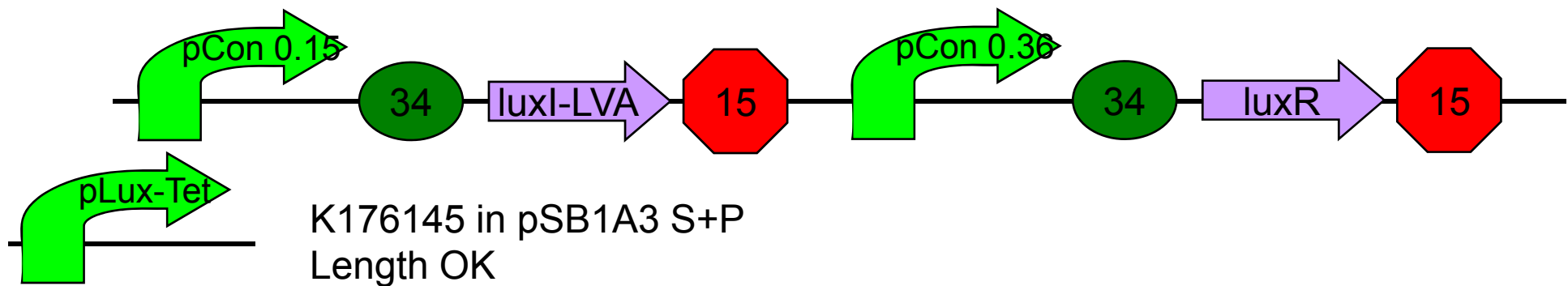
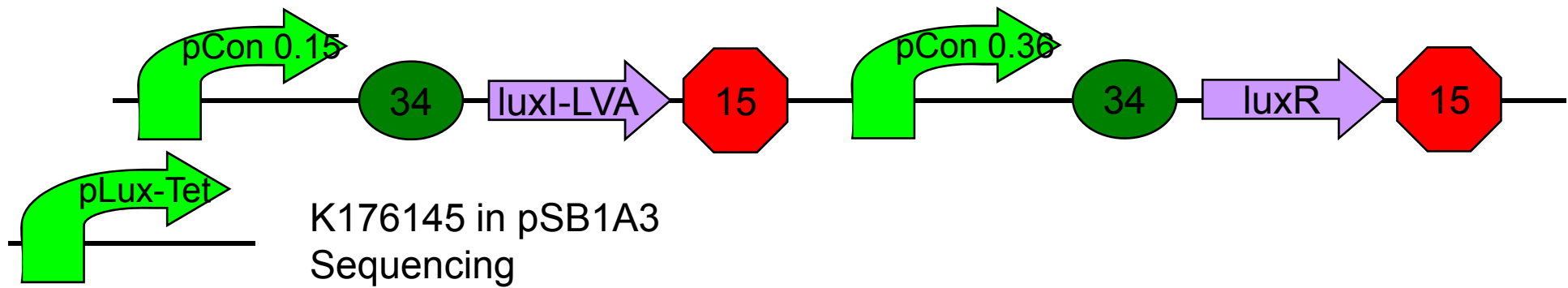
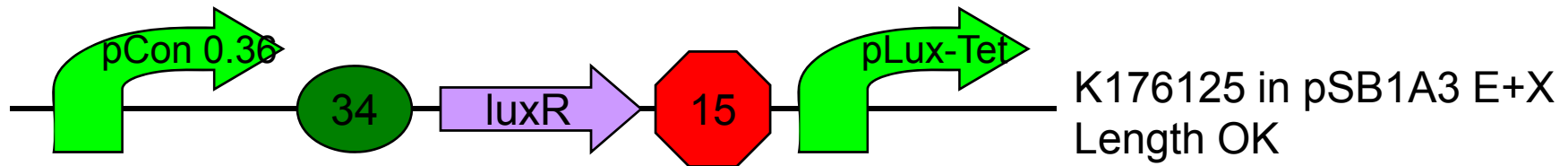


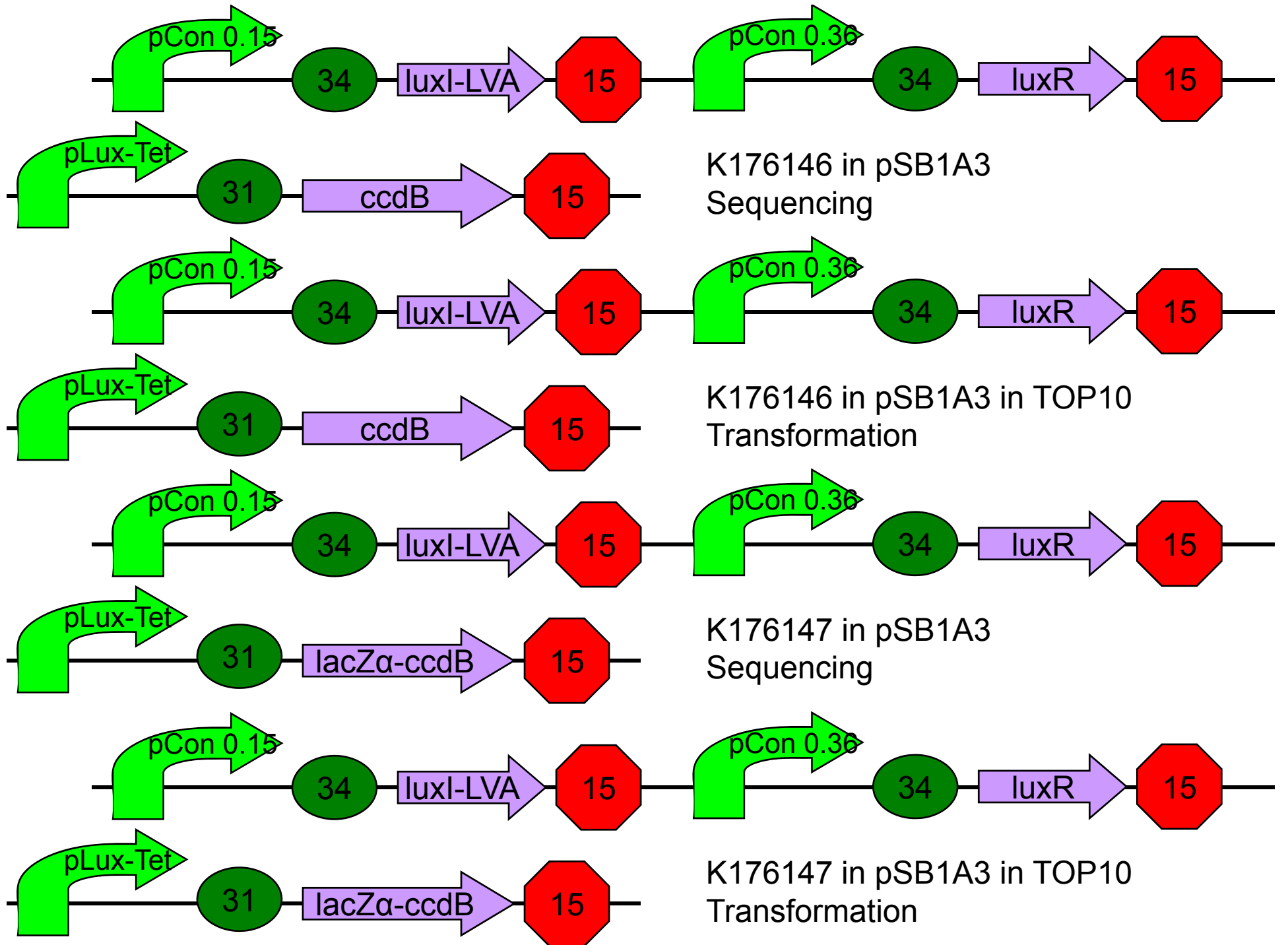


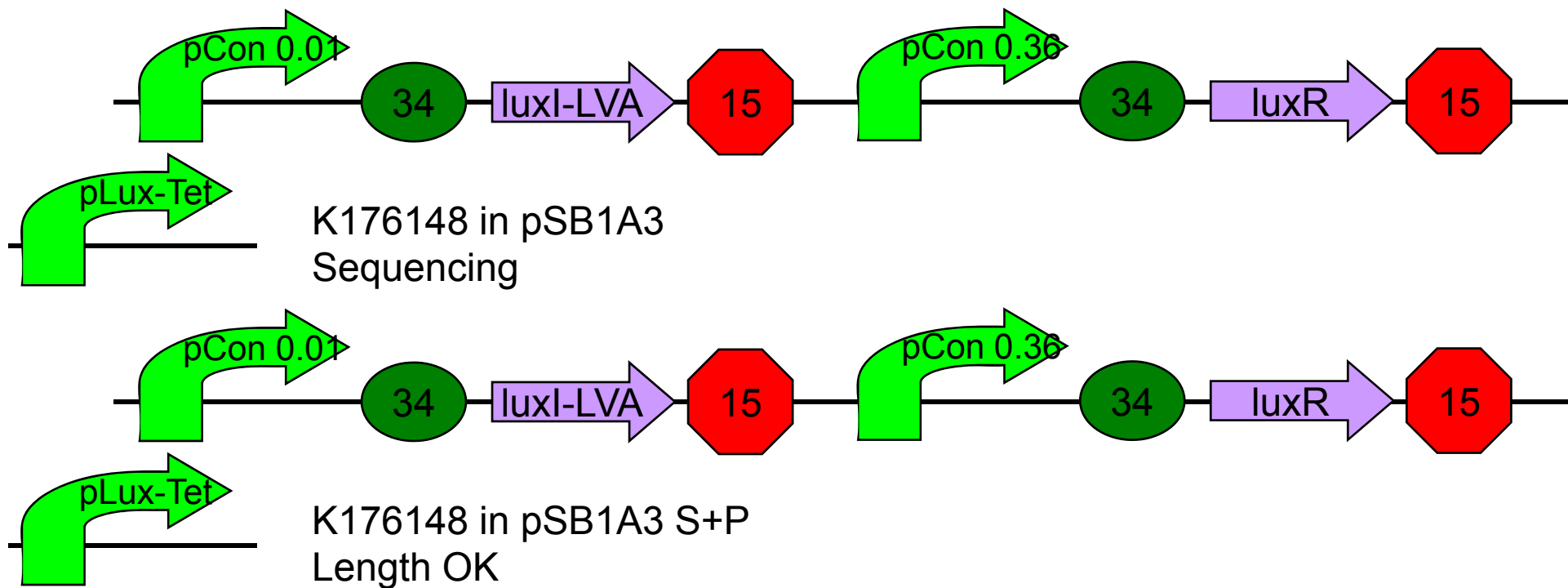


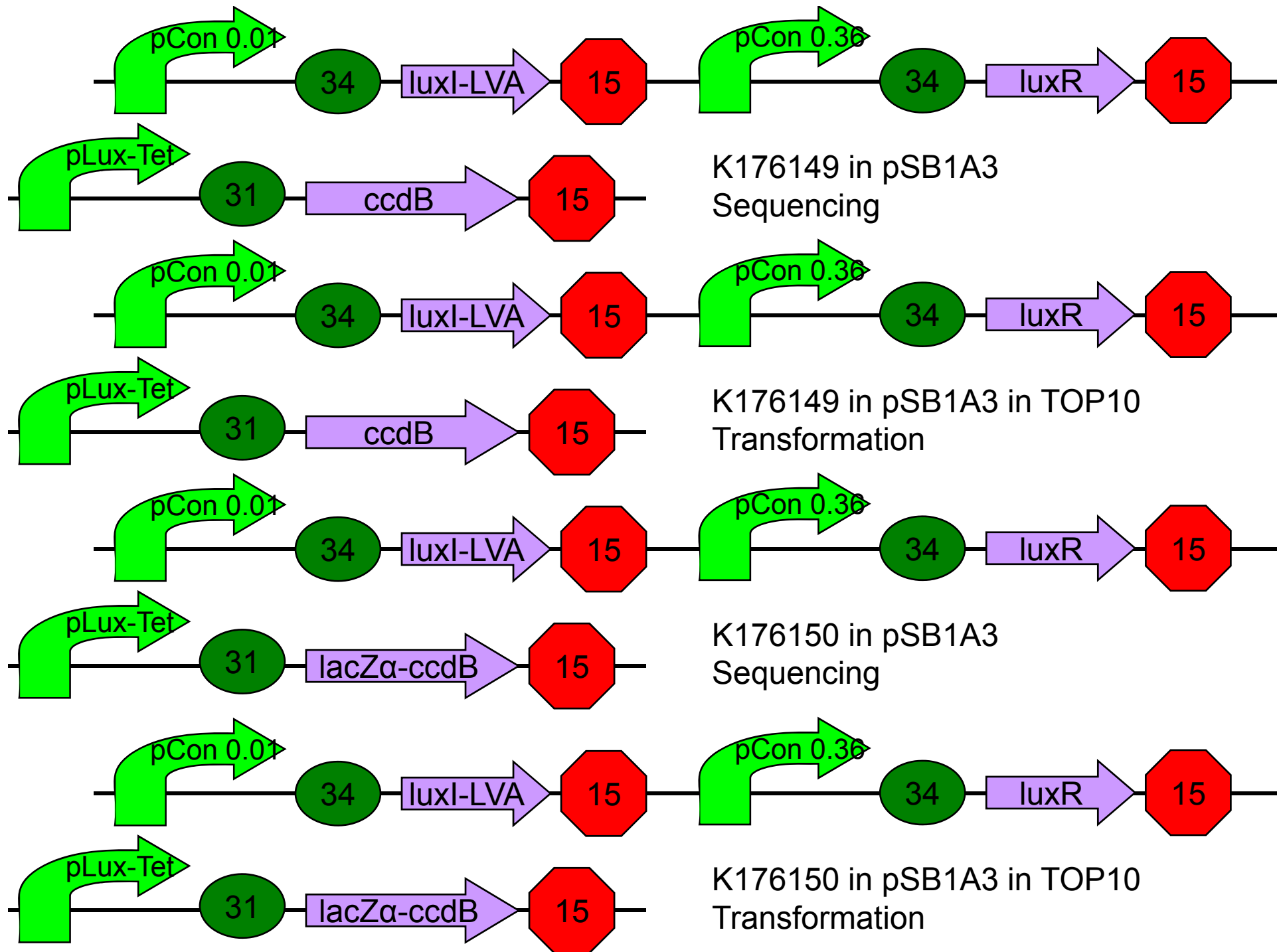








































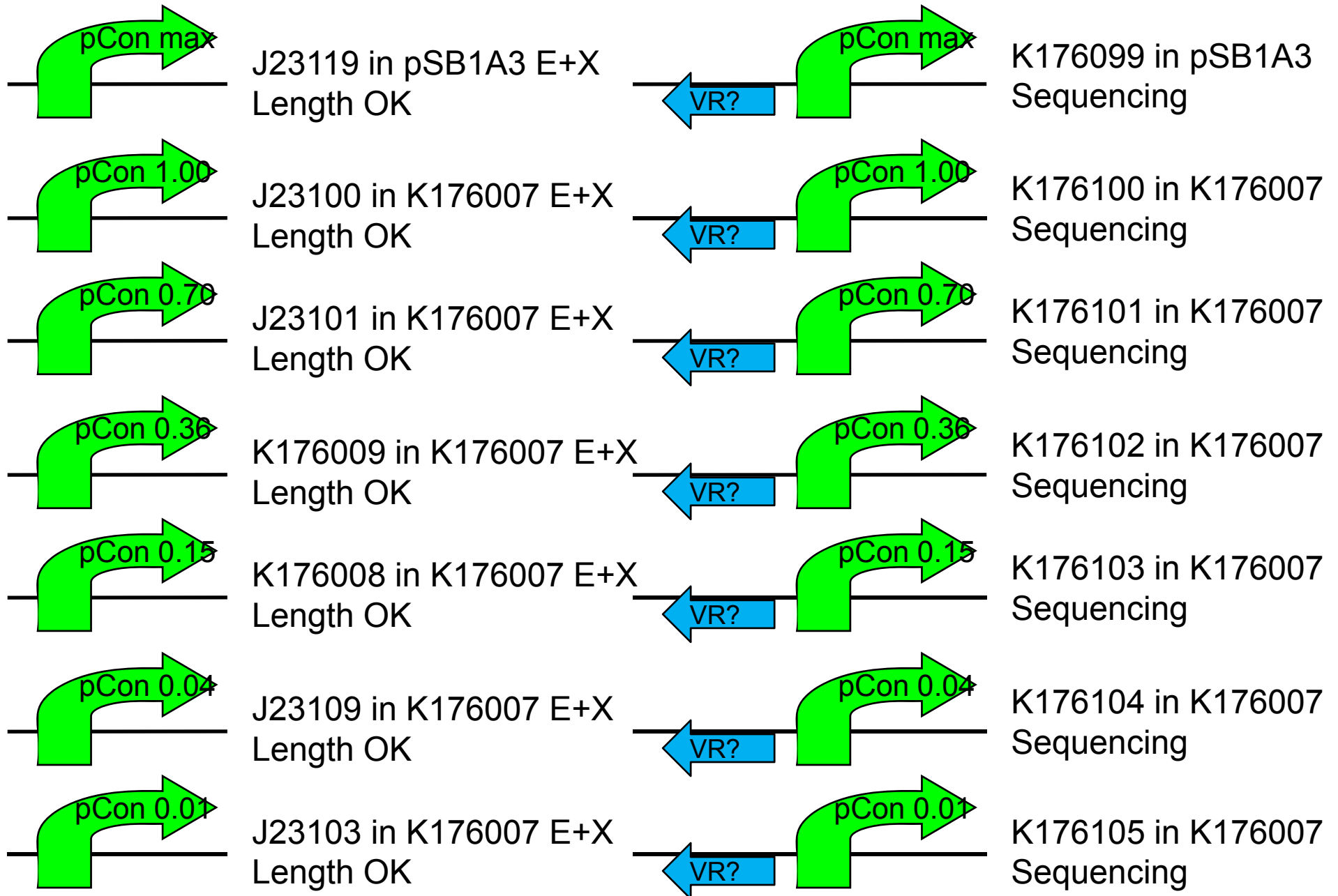


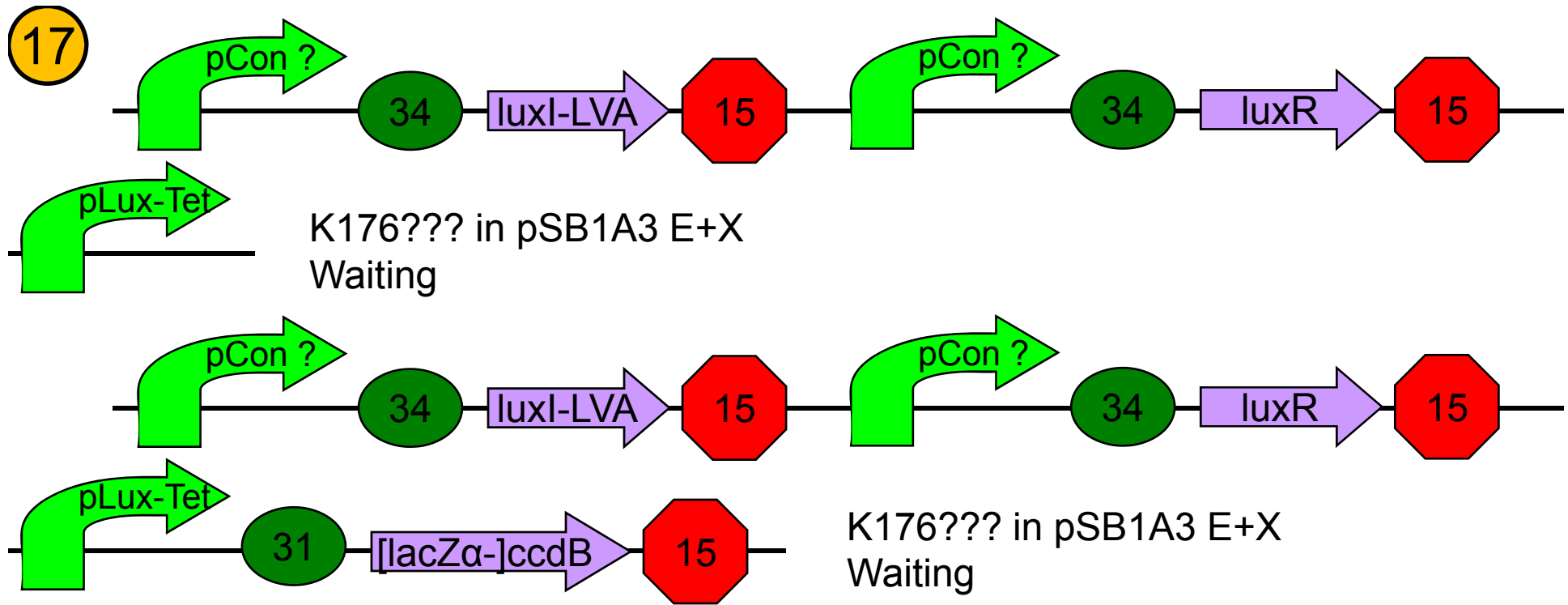


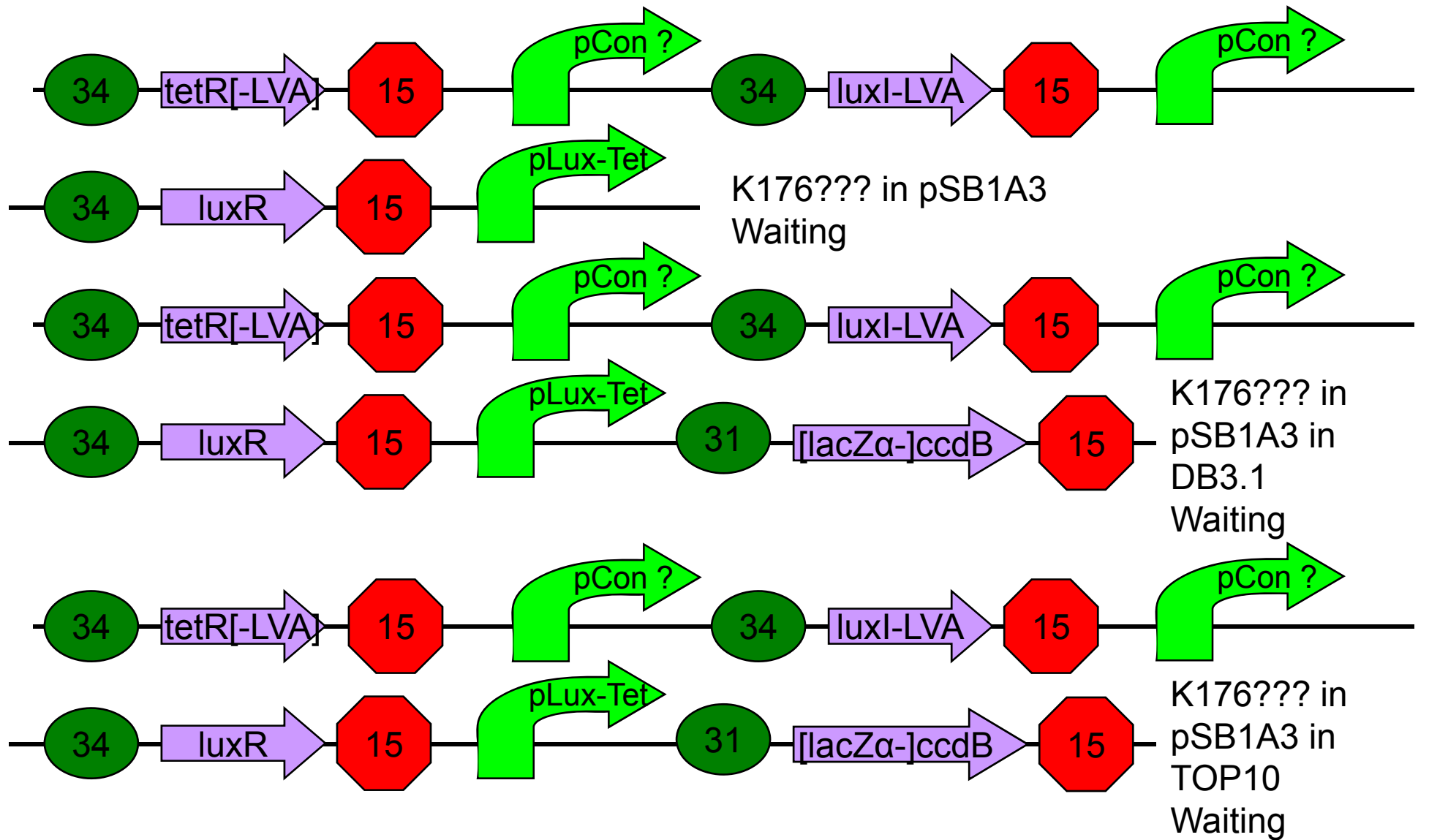
15

	K176037 E+S Synthesis OK		K176037 in pSB1A3 Sequencing		K176047 Synthesis OK
	K176038 E+S Synthesis OK		K176038 in pSB1A3 Sequencing		K176048 Synthesis OK
	K176039 E+S Synthesis OK		K176039 in pSB1A3 Sequencing		K176049 Synthesis OK
	K176040 E+S Synthesis OK		K176040 in pSB1A3 Sequencing		K176050 Synthesis OK
	K176041 E+S Synthesis OK		K176041 in pSB1A3 Sequencing		K176051 Synthesis OK
	K176042 E+S Synthesis OK		K176042 in pSB1A3 Sequencing		K176052 Synthesis OK
	K176043 E+S Synthesis OK		K176043 in pSB1A3 Sequencing		K176053 Synthesis OK
	K176044 E+S Synthesis OK		K176044 in pSB1A3 Sequencing		K176054 Synthesis OK
	K176045 E+S Synthesis OK		K176045 in pSB1A3 Sequencing		K176055 Synthesis OK
	K176046 E+S Synthesis OK		K176046 in pSB1A3 Sequencing		K176056 Synthesis OK
—	pSB1A3 E+S Length OK				

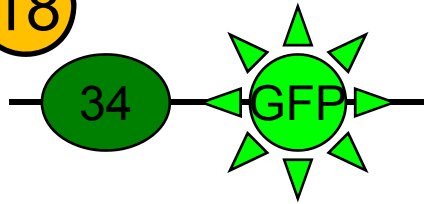
16



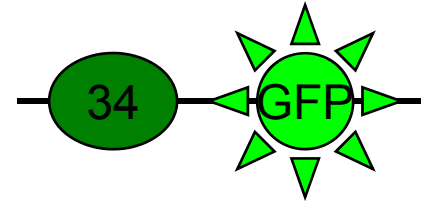




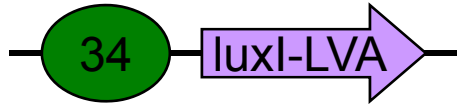
18



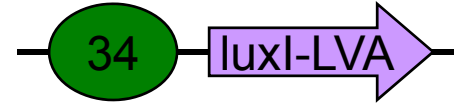
I13500 in pSB1A2
Sequence OK



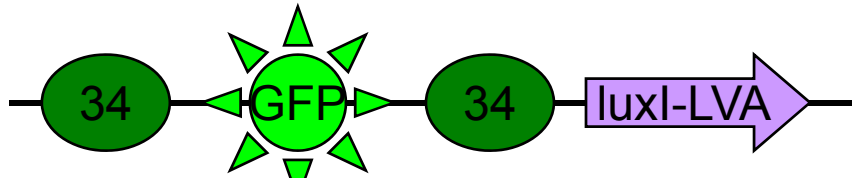
I13500 in pSB1A2 S+P
Length OK



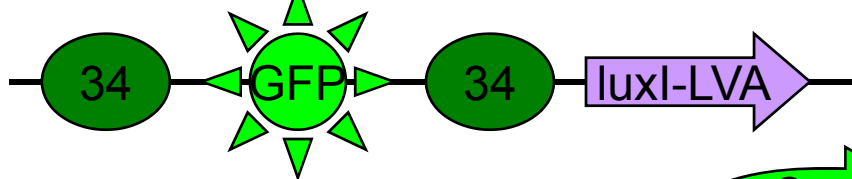
C0261 in pSB1A2
Sequence OK



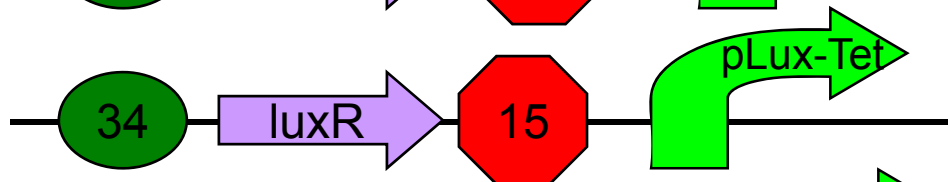
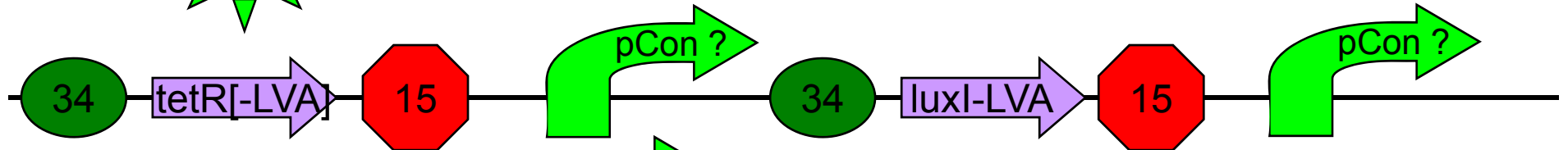
C0261 X+P
Length OK



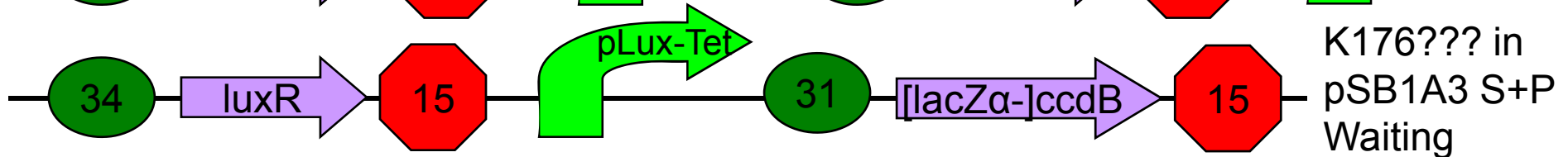
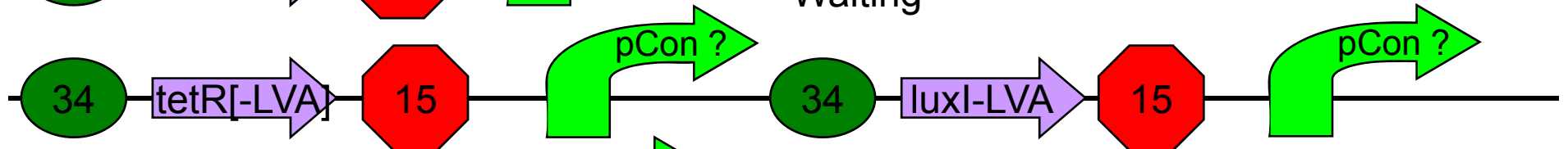
K176106 in pSB1A2
Sequence OK



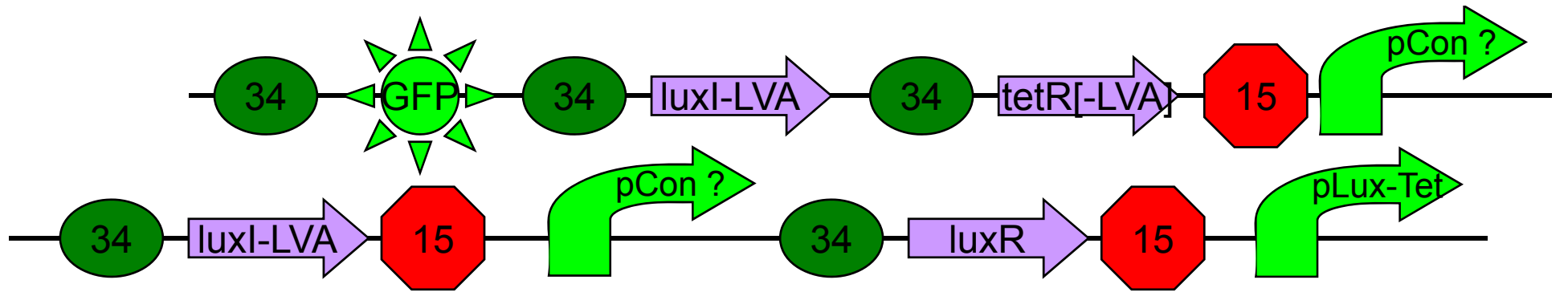
K176106 E+S
Digestion



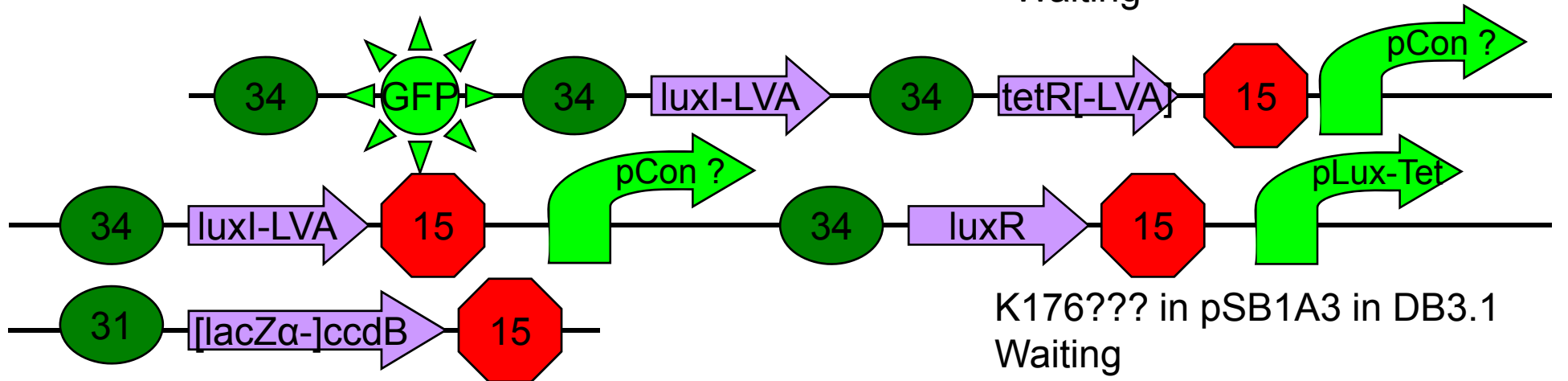
K176??? in pSB1A3 S+P
Waiting



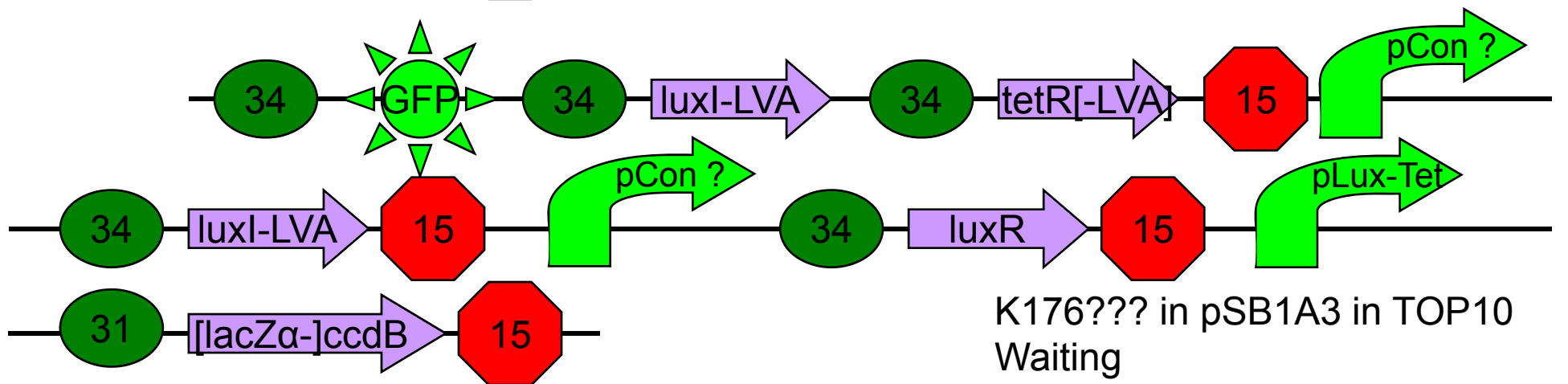
K176??? in
pSB1A3 S+P
Waiting



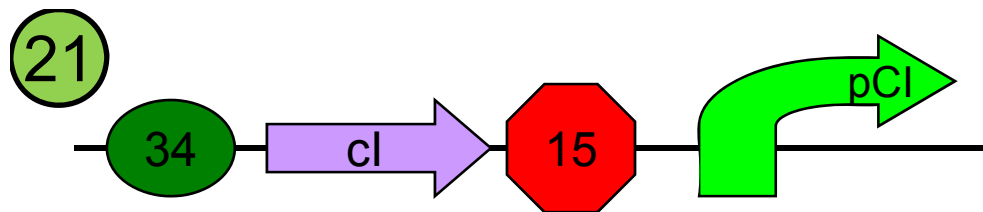
K176??? in pSB1A3
Waiting



K176??? in pSB1A3 in DB3.1
Waiting

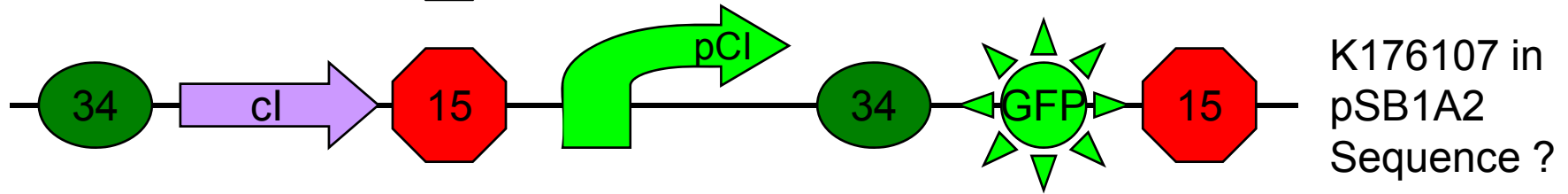
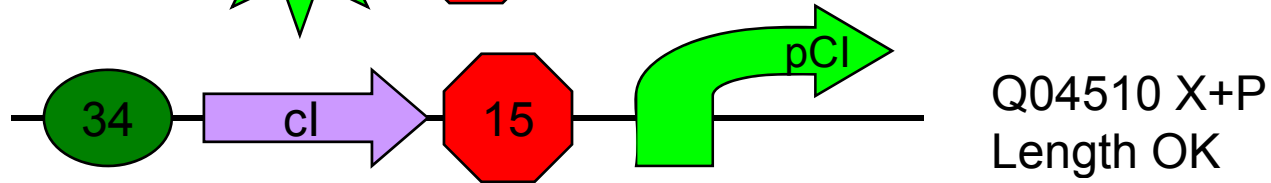
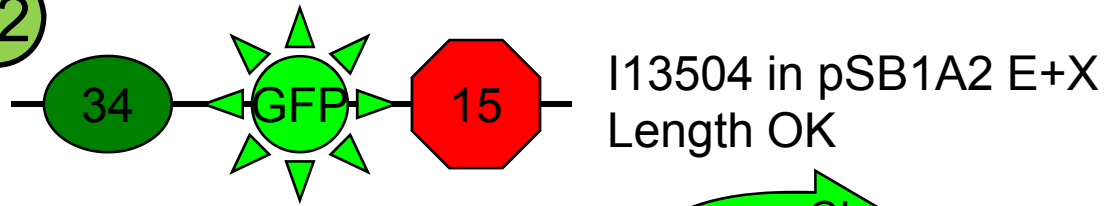


K176??? in pSB1A3 in TOP10
Waiting

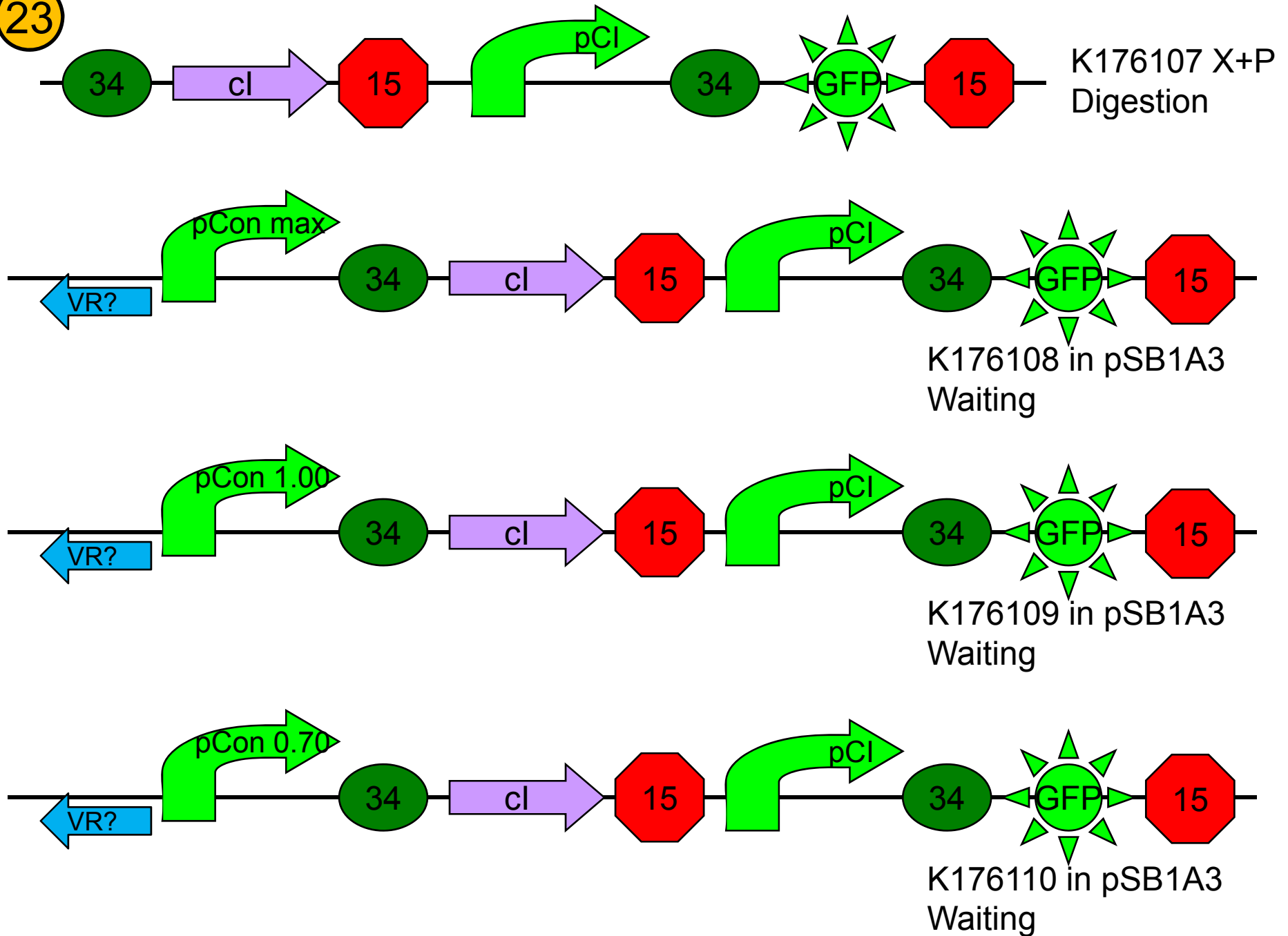


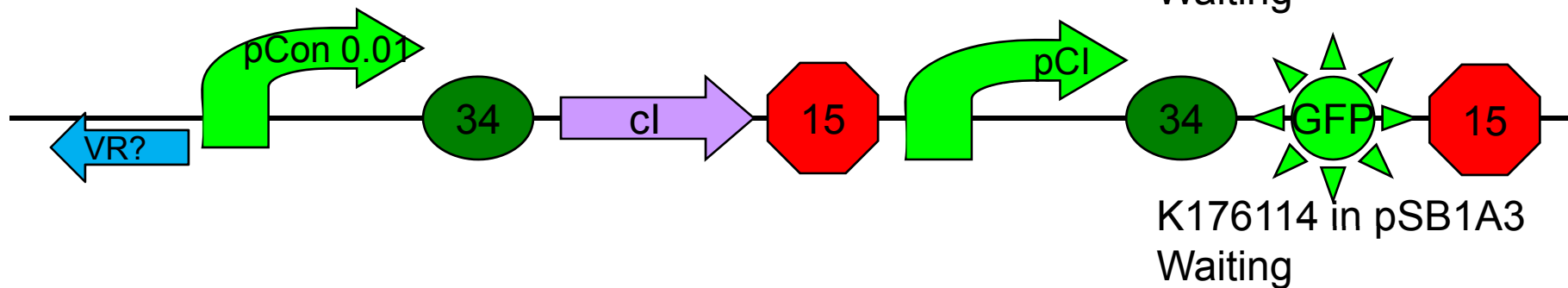
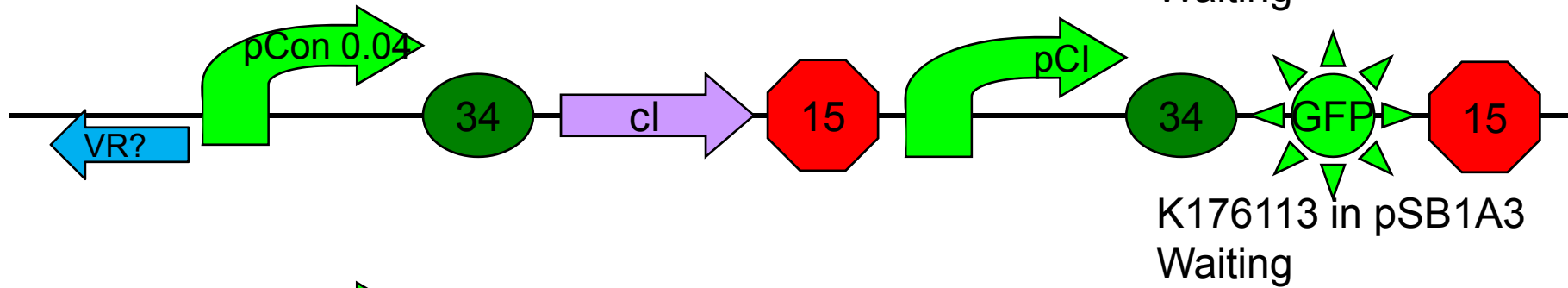
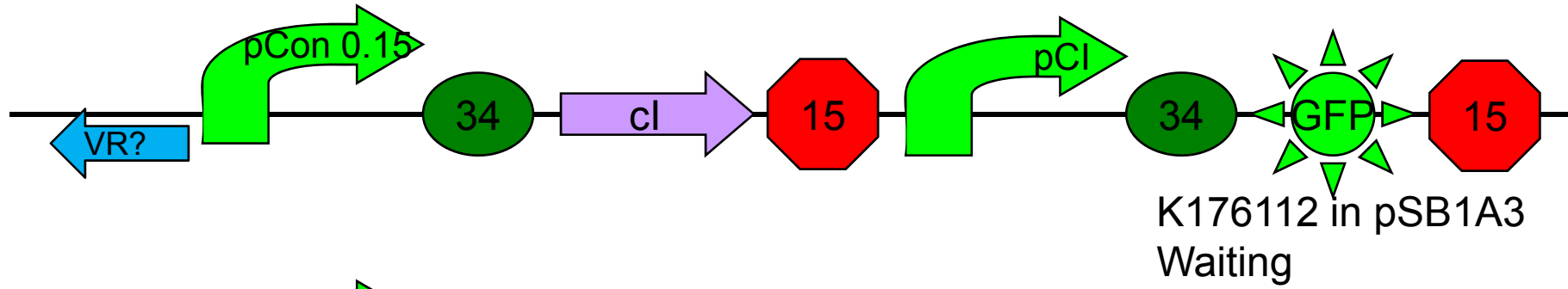
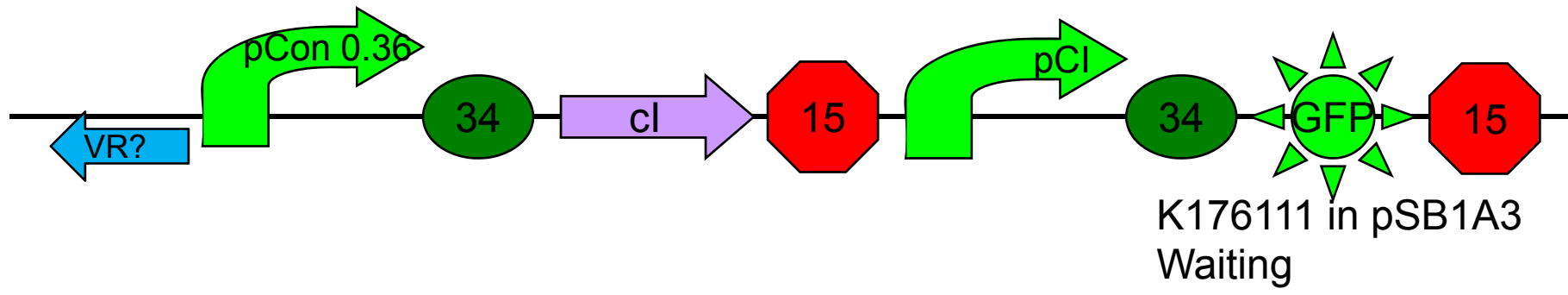
Q04510 in pSB2K3
Sequence OK

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Measurement

- Strain
 - TOP10
 - DH5 α
 - MG1655
 - MDS 42 recA Blue
- Plasmid
- Medium
 - LB
 - M9
 - Minimal
 - Supplemented
 - EZ Rich Define
 - pH-buffered TBK
 - pH-buffered LBK
- pH
- Temperature
 - 37°C
 - 30°C
 - 34°C
- Pre-warm
- Shake
- Dilution
- Wash

Wiki

- Team project description
- Notebook
 - Meetings
 - Lab Work
 - Sample Naming Sheets
- Logo
- Team
- Other pages

Thank You