Name: Jennifer Zhang

Date: 6/13/14

WEEKLY ONE SENTENCER: test our RBS primers and promoters with mCherry

DAILY ONE SENTENCER: ~~[illegible]~~ insert promoter M1 in front of gel purified ~~[illegible]~~ RBS M2 and L1 (w/ mCherry) (and purify RBS primers w/ mCherry (65°C PCR protocol)) gel extracted

METHOD(S) OF CHOICE:
PCR
gel extraction

EXPECTED RESULT:
promoter M1 → band of ~ 1kb
RBS primers → band of ~

(☒ check if APE file exists on Drive)

TEMPLATE(S): RBS M2/L1 with mCherry (gel purified)

OLIGO(S): promoter M1 → 0[illegible] next
03663

THERMOCYCLER SETTINGS: 94-2' ; {94'-15", ~~60~~ 65 -15", 68-1.5'}x31, 68-4', 4 forever
same as 6/12 ? w/ Im

CONTROLS:

POSITIVE:

NEGATIVE: no polymerase ✓

CONFIRMATION?
gel ✓

GEL LANE ORDER:

GEL PICTURE / OTHER SPACE:
• ran a gradient PCR w/ RL1 with ~~temp~~ 62, 63, 64
temp. 54, 56, 58 / 61, 62, 64 to see if different temps will optimize

Gel: 1kb | 54 | 56 | 58 | 61 | 62 | 64

Name: Coleen Tran

Date: 6/13/14

WEEKLY ONE SENTENCER:

DAILY ONE SENTENCER: troubleshooting the RBS primer PCR & inserting promoter primers

METHOD(S) OF CHOICE:

PCR, gel extract, gel electrophoresis

EXPECTED RESULT:

band at ~ 900-1000 for RBS primer & promoter primer

(☐ check if APE file exists on Drive)

TEMPLATE(S):

OLIGO(S): 363, RBS primers (74-79), promoter primers (80-85) Thank you

THERMOCYCLER SETTINGS: 94-2'; {94'-45", 65-15"; 68-1.5'} x31, 68-4', 4

CONTROLS:

POSITIVE:

NEGATIVE:

no polymerase

~~no template~~

CONFIRMATION?

gel

GEL LANE ORDER:

GEL PICTURE / OTHER SPACE:

Name: Katie Fitton

Date: 6/13/14

WEEKLY ONE SENTENCER:

Clone diff. combinations of RBS primers & promoters into RBS plasmid

DAILY ONE SENTENCER:

~~Re~~ Gel extraction ~~for~~ for PCR run @ 65° for annealing
Run PCR w/ gelextract products & promoters to + emp.
insert promoters & then gel extract & purify

METHOD(S) OF CHOICE:

gel extraction
gel purification
PCR

EXPECTED RESULT:

band btw 900 & 1000 base pairs for first PCR product w/o promoter

1100 base pairs for other 2 PCR products

(☑ check if APE file exists on Drive)

TEMPLATE(S): mcherry & mcherry M2 & L1 from yesterday

OLIGO(S): promoter & 343

THERMOCYCLER SETTINGS: use database #'s

CONTROLS:

POSITIVE:

NEGATIVE: PCR ~~product~~ product run w/ no polymerase ~~or w/~~ no DNA template

CONFIRMATION?

thin gel ok.

GEL LANE ORDER:

GEL PICTURE / OTHER SPACE: