**Lycopene6/pBR1074 miniprep**

Scrape the pBR1074 plate and perform the miniprep procedure. To do this, you will pour some water on the plate at a sterile bench, scrape the cells off, transfer them to an eppendorf tube, vortex well, then treat this material as though it is saturated culture.

When complete, make a 1/20 dilution (2 uL into 18uL ddH2O). Put the dilution and original miniprep in the box:

**destination:**

*label location*

pBR1074 dil20x Box\_Lyc6/D1

pBR1074 Box\_Lyc6/D3

**Lycopene6/Eback: PCR**

**protocol:** Q5

**program:** Q5-8K

**samples:**

*label primer1 primer2 template product*

EB1 EB1F EB1R pLYC25 Eback1

EB2 EB2F EB2R pLYC25 Eback2

**source:**

*label location*

EB1F benchtop, lyophilized stock

EB1R benchtop, lyophilized stock

EB2F benchtop, lyophilized stock

EB2R benchtop, lyophilized stock

pLYC25 dil20x TPcon4\_dil/G1

**destination:**

*label concentration location*

EB1 thermocycler1A

EB2 thermocycler1A

10 uM EB1F 10uM 10uM\_LYC\_back1/A9

10 uM EB1R 10uM 10uM\_LYC\_back1/B9

10 uM EB2F 10uM 10uM\_LYC\_back1/C9

10 uM EB2R 10uM 10uM\_LYC\_back1/D9

EB1F 100uM LYC\_back1/A9

EB1R 100uM LYC\_back1/B9

EB2F 100uM LYC\_back1/C9

EB2R 100uM LYC\_back1/D9

**note:**

Never let enzymes warm up! Only take the enzyme cooler out of the freezer when you are actively using it, and only take the tubes out of it when actively dispensing.

**Lycopene6/Kback: PCR**

**protocol:** Q5

**program:** Q5-8K

**samples:**

*label primer1 primer2 template product*

KB1 kback1-F kback1-R pLYC25 Kback1

KB2 kback2-F kback2-R pLYC25 Kback2

**source:**

*label location*

kback1-F benchtop, lyophilized stock

kback1-R benchtop, lyophilized stock

kback2-F benchtop, lyophilized stock

kback2-R benchtop, lyophilized stock

pLYC25 dil20x TPcon4\_dil/G2

**destination:**

*label concentration location*

KB1 thermocycler1B

KB2 thermocycler1B

10 uM KB1F 10uM 10uM\_LYC\_back1/E9

10 uM KB1R 10uM 10uM\_LYC\_back1/F9

10 uM KB2F 10uM 10uM\_LYC\_back1/G9

10 uM KB2R 10uM 10uM\_LYC\_back1/H9

KB1F 100uM LYC\_back1/E9

KB1R 100uM LYC\_back1/F9

KB2F 100uM LYC\_back1/G9

KB2R 100uM LYC\_back1/H9

**note:**

Never let enzymes warm up! Only take the enzyme cooler out of the freezer when you are actively using it, and only take the tubes out of it when actively dispensing.

**Lycopene6/Eori: PCR**

**protocol:** Phusion

**program:** main/phu1

**thermocycler:** 2A

**samples:**

*label primer1 primer2 template product*

EP0 EPF0 EPR0 p20N87 Eori0

EP1 EPF1 EPR1 pBR1074 Eori1

EP2 EPF2 EPR2 p20N189-A Eori2

**source:**

*label location*

EPF0 benchtop, lyophilized stock

EPF1 benchtop, lyophilized stock

EPF2 benchtop, lyophilized stock

EPR0 benchtop, lyophilized stock

EPR1 benchtop, lyophilized stock

EPR2 benchtop, lyophilized stock

p20N87 dil20x TPcon4\_dil/A2

pBR1074 dil20x Box\_Lyc6/D1

p20N189-A dil20x Box\_Lyc6/D2

**destination:**

*label concentration location*

10uM EPF0 10uM Box\_Lyc6/A1

10uM EPF1 10uM Box\_Lyc6/B1

10uM EPF2 10uM Box\_Lyc6/C1

10uM EPR0 10uM Box\_Lyc6/A2

10uM EPR1 10uM Box\_Lyc6/B2

10uM EPR2 10uM Box\_Lyc6/C2

EPF0 100uM Box\_Lyc6/A3

EPF1 100uM Box\_Lyc6/B3

EPF2 100uM Box\_Lyc6/C3

EPR0 100uM Box\_Lyc6/A4

EPR1 100uM Box\_Lyc6/B4

EPR2 100uM Box\_Lyc6/C4

**note:**

Never let enzymes warm up! Only take the enzyme cooler out of the freezer when you are actively using it, and only take the tubes out of it when actively dispensing.

**Lycopene6/Kori: PCR**

**protocol:** Phusion

**program:** main/phu1

**thermocycler:** 2B

**samples:**

*label primer1 primer2 template product*

KP0 kpMB1-F kpmB1-R p20N87 frag1

KP1 k322-F k322-R pBR1074 frag2

KP2 k189-F k189-R p20N189-A frag3

**source:**

*label location*

kpMB1-F benchtop, lyophilized stock

k322-F benchtop, lyophilized stock

k189-F benchtop, lyophilized stock

kpmB1-R benchtop, lyophilized stock

k322-R benchtop, lyophilized stock

k189-R benchtop, lyophilized stock

p20N87 dil20x TPcon4\_dil/A2

pBR1074 dil20x Box\_Lyc6/D1

p20N189-A dil20x Box\_Lyc6/D2

**destination:**

*label concentration location*

kpMB1-F 10uM Box\_Lyc6/E1

k322-F 10uM Box\_Lyc6/F1

k189-F 10uM Box\_Lyc6/G1

kpmB1-R 10uM Box\_Lyc6/E2

k322-R 10uM Box\_Lyc6/F2

k189-R 10uM Box\_Lyc6/G2

kpMB1-F 100uM Box\_Lyc6/E3

k322-F 100uM Box\_Lyc6/F3

k189-F 100uM Box\_Lyc6/G3

kpmB1-R 100uM Box\_Lyc6/E4

k322-R 100uM Box\_Lyc6/F4

k189-R 100uM Box\_Lyc6/G4

**note:**

Never let enzymes warm up! Only take the enzyme cooler out of the freezer when you are actively using it, and only take the tubes out of it when actively dispensing.