Status Reports – July 12, 2008

Group 1 – Fluorescent proteins
status report by: **Ingrid** (work done by James)
Part no.: BBa_K110017
Part Description: yESapphire RtL
Part Location (in build a genome lab): In James and Jasper's PCR product Box, Stainless Steel 4 degree
PCR successful?; Yes
Cloning of PCR product successful: Y/N
Sequencing of cloned PCR product successful: Not done
Joining of validated part to adjacent part(s) status: Not done
Problems to be solved: The PCR of this part yielded a very large product
Current status of this part:

Group 1 – Fluorescent proteins
status report by: **Ingrid** (work done by James)
Part no.: BBa_K110010
Part Description: yESapphire LtR
Part Location (in build a genome lab): In James and Jasper's PCR product Box, Stainless Steel 4 degree
PCR successful?; Yes
Cloning of PCR product successful: Not done
Sequencing of cloned PCR product successful: No
Joining of validated part to adjacent part(s) status: Not done
Problems to be solved: The PCR of this part yielded a very large product
Current status of this part:

Group 2: A promoters
Status report by **Allison and Nate**
Part no.: BBa_K110008
Part Description: MFA1 (LtR) [Note: LtR means coding region part reads left to right.]
Part Location: in a labeled box, second shelf from the top, -20
degrees C refrigerator next to front door
Date: 7/10/08
PCR successful? Yes
Cloning of PCR product successful: in progress
Sequencing of cloned PCR product successful: not done
Joining of validated part to adjacent part(s) status: not done
Problems to be solved: to be determined
Current status of this part: PCR was being troubleshooted, appeared to
have good results with regular PCR protocol (not touchdown) in which

there was a constant annealing temperature of 55 degrees C - see gel

Group 2: A promoters
Status report by **Allison and Nate**
Part no.: BBa_K110016
Part Description: Ste2 (R+L)
Part Location: in a labeled box, second shelf from the top, -20 degrees C refrigerator next to front door
Date: 7/10/08
PCR successful? Yes
Cloning of PCR product successful: in progress
Sequencing of cloned PCR product successful: not done
Joining of validated part to adjacent part(s) status: not done
Problems to be solved: to be determined
Current status of this part: Both PCR protocols (touchdown and second PCR with constant annealing temperature) produced product of the correct size. BBa_K110016 was used as a control in the second PCR with BBa_K110008.

Date: 7/11/08
Group 3 - Short Two Way stops
status report by: **James**
Part no.: BBa_K110011
Part Description: Between-bud 27-W FRS2-C LtR
Part Location (in build a genome lab): In James and Jasper's PCR product Box, Stainless Steel 4 degree
PCR successful?; Yes
Cloning of PCR product successful: Yes (will come soon; I can put it in the wiki to make it easier for you)
Sequencing of cloned PCR product successful: No
Joining of validated part to adjacent part(s) status: Not done
Problems to be solved:
Current status of this part: Miniprep of Overnight cultures will be completed today

Group 3 - Short Two Way stops
status report by: **James**
Part no.: BBa_K110012
Part Description: Between STE2-W and BST1-C LtR
Part Location (in build a genome lab): In James and Jasper's PCR product Box, Stainless Steel 4 degree
PCR successful?; Yes
Cloning of PCR product successful: Yes (will come soon; I can put it in the wiki to make it easier

for you)
Sequencing of cloned PCR product successful: No
Joining of validated part to adjacent part(s) status: Not done
Problems to be solved:
Current status of this part: Miniprep of Overnight cultures will be completed today

Group 3 - Short Two Way stops
status report by: **James**
Part no.: BBa_K110013
Part Description: Between-SWP82-W and EMP47-C LtR
Part Location (in build a genome lab): In James and Jasper's PCR product Box, Stainless Steel 4 degree
PCR successful?; No
Cloning of PCR product successful: No (will come soon; I can put it in the wiki to make it easier for you)
Sequencing of cloned PCR product successful: No
Joining of validated part to adjacent part(s) status: Not done
Problems to be solved: The PCR of this part yielded a very large product
Current status of this part:

Date: 7/10/08
Group 4: Long two way stops & MATalpha specific promotors
Status report by: **Jaime Liu**
Part no.: BBa_K110001, BBa_K110003, BBa_K110005, BBa_K110006
Part Description:
BBa_K110001 - Between-bud 27-W FRS2-C + 200bp into each gene LtR
BBa_K110003 - Between-SWP82-W and EMP47-C +200 into each gene LtR
BBa_K110005 - MFalpha2 LtR
BBa_K110006 - MFalpha1 LtR
Part Location (in build a genome lab): In 4C fridge #2
PCR successful?; Y/N (link such as this)- Yes
BBa_K110001, BBa_K110003:
http://baderlab.bme.jhu.edu:8888/moodle18/mod/data/view.php?d=4&rid=1462
http://baderlab.bme.jhu.edu:8888/moodle18/mod/data/view.php?d=4&rid=1463
BBa_K110005, BBa_K110006:
http://baderlab.bme.jhu.edu:8888/moodle18/mod/data/view.php?d=4&rid=1470
Cloning of PCR product successful: Y/N (link to gel on moodle) Yes
Sequencing of cloned PCR product successful: Y/N (link to successful sequence trace file on moodle) No
Joining of validated part to adjacent part(s) status: Not Done
Problems to be solved: Not really a problem, but need do a mini-Prep and sequence
Current status of this part: All cloned and inoculated into 1.5 mL LB for mini-prep.

Date: 7/11/08
Group 5 - MATa-specific promoters II
status report by **Rick Carrick**
Part no.: BBa_K110015,
Part Description: MFA1
Part Location (in build a genome lab):
PCR successful?; Y (on moodle somewhere)
Cloning of PCR product successful: Y
Sequencing of cloned PCR product successful:N
Joining of validated part to adjacent part(s) status: Not done
Problems to be solved: None so far
Current status of this part: This parts must be restriction enzyme digested and sequenced next.

Date: 7/11/08
Group 5 - MATa-specific promoters II
status report by **Rick Carrick**
Part no.: BBa_K110009
Part Description: Ste2
Part Location (in build a genome lab):
PCR successful?; Y (on moodle somewhere)
Cloning of PCR product successful: Y
Sequencing of cloned PCR product successful:N
Joining of validated part to adjacent part(s) status: Not done
Problems to be solved: None so far
Current status of this part: This part must be restriction enzyme digested and sequenced next

Group 6 – Vectors

Status report by Ingrid
Vector transformed into bacteria strain DB3.1 Y/N
Permanent culture made in the Boeke lab for future reference Y/N
Selectable marker for this vector
Medium made and tested Y/N (link)
DNA preps made Y/N
DNA preps tested by RE digest - (link)
DNA preps tested by transformation into DB3.1 and DH5alpha (or JM109) – put data as Table on moodle.
Sample format/data follows:

Amount transformed	cfu/micGm in DB3.1	cfu/micGm in JM109
0.1 ng	5 * 10e7	<2 * 10e2

Preparative digests ready for use are located – where?

Group 7 Microscopy/Yeast

Milestones

Have gfp yeast been visualized by microscopy?

Have gfp yeast been photographed? Link to moodle – picute. If pics are nice, put on our web page

Can green colonies be photographed? See above

Ditto for other colors, ref, sapphire, yello

Has STE3-gfp sex detector been transformed into MATa, MATalpha, and MATa/alpha? Y/N

Have permanent cultures been banked in the Boeke lab? Y/N

Have STE3-gfp sex detector cells/colonies been photographed Y/N - link to Moodle