	Week 1 (2012.6.11-2012.6.15)								
	Key Words: pSB1C3								
	Monday 2012.6.11	Tuesday 2012.6.12	Wednesday 2012.6.13	Thursday 2012.6.14	Friday 2012.6.15				
Work done	2012.0.11	Transformation of	• Inoculation of BBa_J04450-pSB 1C3	 Inoculation of plasmid (pCMV-BMP-2) Restreak the plate containing plasmid 	2012.0.15				
Result			 Got plates with E.Coli carrying BBa_J04450-pSB 1C3 (Confirmed by GFP screening) 	- Got plates with E.Coli carrying plasmid (pCMV-BMP-2)					
Discussion Remark									

	Week 2 (2012.6.18-2012.6.22)									
	Key Words: RFP, BMP-2, Pveg									
	Monday 2012.6.18	Tuesday 2012.6.19	Wednesday 2012.6.20	Thursday 2012.6.21	Friday 2012.6.22					
Work done	 Digestion confirmation of plasmid (pCMV-BMP-2) PCR for front part and back part of BMP-2 from the plasmid (pCMV-BMP-2) (Amplify the BMP-2 from the plasmid, introduce mutation afterwards) 	(insert R.B.S. into the biobrick) · Gel check of PCR	• Gel check of PCR product. P _{veg} -R.B.S.	 gDNA extraction from B. subtilis Gel check of DNA from genomic extraction PCR the front part of BMP-2 from the plasmid (pCMV-BMP-2) 	(receive more products)					
					 Digestion of backbone BBa_J04450 					

							-	and P _{veg} -R.B. using and Spe Dephosp ation PSB1C3 BBa_J04	EcoRI I. bhoryl of in
Result	. The gel photo show the right bands of the plasmid (pCMV-BMP-2)	- Gel result cannot tell whether PCR Pveg-R.B.S. is success	- Gel shows PCR product, PCR P _{veg} -R.B.S success.		No DNA from extraction	found gDNA	-	does show	photo not the
	after digestion -	 The gel photo shows the correct band for the front part of BMP-2, but does not 						insert P _{veg} -R.B. backbon PSB1C3	e
		show the correct band for the back part of BMP-2						the prod	luct
Discussion		No product for the back part of BMP-2. Probably the primer is not correct. In addition, the template may not contain the complementary site as predicted, as the		-	Optimize protocol gDNA extraction	the for	-	Still solution solving problem PCR for part of E	the of back

	sequer	nce of	the		
	templa	te is	not		
	docum	ented.			
Remark					

	Week 3 (2012.6.25-2012.6.29)							
Key Words: Pveg-R.B.S. gDNA extraction								
	Monday 2012.6.25	Tuesday 2012.6.26	Wednesday 2012.6.27	Thursday 2012.6.28	Friday 2012.6.29			
Work done	- gDNA extraction from B. <i>subtilis</i>	. gDNA extraction from B. <i>subtilis</i>	 Ligation of insert Pveg-R.B.S and backbone PSB1C3. Transformation of Pveg-R.B.S-PSB1C3 PCR for signal peptide YdjM from B. subtilis gDNA Gel check for the PCR YdjM result 	 whole BMP-2 from plasmid (pCMV-BMP-2) Gel check for PCR BMP-2 Check the plate after transformation of Pveg-R.B.S-PSB1C 				
Result	· Got gDNA of B.	· Got gDNA of B. <i>subtilis</i>	• Got signal peptide	3 • No PCR product				

	subtilis	YdjM	from gel photo	
			- Contamination of the transformed plate	
Discussion			 There is some problem on the back part of BMP-2, or the reverse primer Prepare the plasmid Pveg-R.B.S-PSB1C 3 again 	
Remark				

Week 4 (2012.7.2-2012.7.6)						
Key Words:						
	Monday	Tuesday	Wednesday	Thursday	Friday	
	2012.7.2	2012.7.3	2012.7.4	2012.7.5	2012.7.6	
Work done		- Gradient PCR the	- PCR the whole BMP-2	• PCR YbdN from gDNA	- Check the plate of	
		whole BMP-2 from	from BMP-2	of B. <i>subtilis</i>	transformation	
		plasmid	extracted in mouse	- Gel check for PCR	P _{veg} -R.B.S-PSB1C	

	(pCMV-BMP-2) again - Gel check for PCR BMP-2	gDNA - Gel check of PCR product BMP-2 -	 product YbdN Digestion of backbone BBa_J04450 and insert P_{veg}-R.B.S using EcoRI and SpeI. Dephosphorylatio n of PSB1C3 in BBa_J04450 Purification of backbone PSB1C3 and insert P_{veg}-R.B.S Ligation of PSB1C3 Transformation of PSB1C3 Transformation of P_{veg}-R.B.S-PSB1C3 	3
Result -	- No PCR product	- Whole BMP-2 is amplified from BMP-2 in mouse gDNA	 no product YbdN in the gel photo 	 Colonies found in P_{veg}-R.B.S-PSB1C 3
Discussion			Wrong YbdN primer is added.	

Remark

		Week 5 (201	L2.7.9-2012.7.	13)	
		Key Words:	Pveg-R.B.S-PSB	1C3	
	Monday 2012.7.9	Tuesday 2012.7.10	Wednesday 2012.7.11	Thursday 2012.7.12	Friday 2012.7.13
Work done	 Inoculation 8 colonies from transformed Pveg-R.B.S-PSB1C3 Digestion check for BMP-2 template plasmid (pCMV-BMP-2) using NotI-HF 	 Digestion check of P_{veg}-R.B.S-PSB1C3 from 8 colonies using XbaI and NcoI. Gel check of the digestion product plasmid (pCMV-BMP-2) using NotI-HF 	of B. <i>subtilis</i> - Gel check for PCR product YbdN		- Sequence the plasmid P _{veg} -R.B.S-PS B1C3
Result		- Some plasmid P _{veg} -R.B.S-PSB1C3 showed the right band. The cloning success	band. Signal peptide YbdN is successfully		

	- Gel showed the right band of the digested plasmid (pCMV-BMP-2).	
Discussion	Success clone	
Remark	P _{veg} -R.B.S-PSB1C3	

	Week 6 (2012.7.16-2012.7.20)								
	Key Words: Overlapping PCR								
	Monday	Tuesday	Wednesday	Thursday	Friday				
	2012.7.16	2012.7.17	2012.7.18	2012.7.19	2012.7.20				
Work done	• Gradient PCR the YdjM-tag-BMP-2	- Gel Purify the PCR product	- Gradient PCR the YbdN-tag-BMP-2	- Overlapping PCR using signal	5				
	(insert the complementary site	YdjM-tag-BMP-2	(insert the complementary site	peptide YdjM and					
	of YdjM at the front		of YdjM at the front		- Dephosphorylation of				
	site of DNA) - Gel check of PCR		site of DNA) - Gel check of PCR	to make YdjM-BMP-2	PSB1C3 in BBa_J04450				
	product		product	- Gel check for PCR	- Purfication of				
	YdjM-tag-BMP-2		YbdN-tag-BMP-2	product	backbone PSB1C3				
			- Gel Purify the PCR	YdjM-BMP-2	and insert				

		produ YbdN·	uct I-tag-BMP-	-2			-	YdjM-BMF Ligation YdjM-BMF PSB1C3 Transforn YdjM-BMF	P-2 nation	of and of 31C3
Result	- Gel showed the correct band, PCR success	- Gel bands correc		three one	showed It band	the	-	P _{veg} -R.B.S has o mutation promoter	one on	point the
Discussion Remark							<u> </u>			

	Week 7 (2012.7.23-2012.7.27)						
	Key Words:						
	Monday Tuesday Wednesday Thursday Friday 2012.7.23 2012.7.24 2012.7.25 2012.7.26 2012.7.27						
Work done	 Check the plate of transformation YdjM-BMP-2-PSB 1C3 	 Digestion check of the 3 colonies with YdjM-BMP-2-PSB 1C3 using StyI 	- Inoculation of 8 colonies from transformed YdjM-BMP-2-PSB1C3	- Transformation of the BBa_E1010	 Digestion check of the 8 colonies with YdjM-BMP-2-PSB1C3 using StyI 		

	 Inoculation of 3 colonies from transformed YdjM-BMP-2-PSB 1C3 	digested product YdjM-BMP-2-PSB 1C3		
Result	 YdjM-BMP-2-PSB 1C3Transformati on success. Colonies found on the plate. 	 Gel shows the right band of the digested product. 		 Gel shows the right band of the digested product.
Discussion		- Clone YdjM-BMP-2-PSB 1C3 is success. But there is a EcoRI cutting site in the BMP-2 sequence. Wait the mutant BMP-2 to make a standard biobrick		
Remark			· · · · · · · · · · · · · · · · · · ·	

Week 8 (2012.7.30-2012.8.3)

Key	Key Words: YdjM-tag-BMP-2* (*:mutated), YbdN-tag-BMP-2*							
	(*:mutated)							
	Monday 2012.7.30	Tuesday 2012.7.31	Wednesday 2012.8.1	Thursday 2012.8.2	Friday 2012.8.3			
Work done	 Gradient PCR the YdjM-tag-BMP-2* with the template which is mutated BMP-2 Gel check the PCR product YdjM-tag-BMP-2* Overlapping PCR YdjM-BMP-2* from signal peptide YdjM and YdjM-tag-BMP-2* Inoculation of BBa_E1010 		 Gradient PCR the YbdN-tag-BMP -2* with the template which is mutated BMP-2 Gel check the PCR product YbdN-tag-BMP -2* Overlapping PCR YbdN-BMP-2* from signal peptide YdjM and YbdN-tag-BMP -2* 	 Digestion of insert YdjM-BMP-2* and BBa_J04450 using XbaI and PstI Dephosphorylatio n of PSB1C3 in BBa_J04450 Purfication of backbone PSB1C3 and insert YdjM-BMP-2* Ligation of YdjM-BMP-2* and PSB1C3 Transformation of YdjM-BMP-2*-PS B1C3 	 Colony PCR of 3 Colonies from YdjM-BMP-2*-PSB1C 3 and 3 colonies from YbdN-BMP-2*-PSB1C 3 Gel check for colony PCR product Standard assembly of Pveg-R.B.S-PSB1C3 to BBa_E1010 Digestion confirmation of plasmid BBa_B0015 with XhoI 			

Result	Successfully got the	Successfully get	 Digestion of insert YbdN-BMP-2* and BBa_J04450 using XbaI and PstI Dephosphorylatio n of PSB1C3 in BBa_J04450 Purfication of backbone PSB1C3 and insert YbdN-BMP-2* Ligation of YbdN-BMP-2* and PSB1C3 Transformation of YbdN-BMP-2*-PS B1C3 	- Gel showed the
	product YdjM-BMP-2* Successfully got the	the product YbdN-BMP-2*		correct band of all YdjM-BMP-2*-PSB1C

	plate BBa_E1010		3	and
			YbdN-BMF	P-2*-PSB1C
			3	
			- Confirm clone BBa	the right _B0015
Discussion				
Remark				

		Week 9 (201	2.8.6-2012.8.1	.0)	
		Key Words:	3Ba_E1010 (RF	P)	
	Monday 2012.8.6	Tuesday 2012.8.7	Wednesday 2012.8.8	Thursday 2012.8.9	Friday 2012.8.10
Work done	 Ligation of P_{veg}-R.B.S and BBa_E1010 Transformation of P_{veg}-R.B.S -BBa_E1010 				
Result		- Observe the red			

	colonies with the clone P _{veg} -R.B.S -BBa_E1010. Confirm the function of promoter Pveg*(one point mutation) in E.coli		
Discussion			
Remark			

	Week 10 (2012.8.13-2012.8.17)							
		Ke	ey Words:					
	Monday 2012.8.13	Tuesday 2012.8.14	Wednesday 2012.8.15	Thursday 2012.8.16	Friday 2012.8.17			
Work done	 Digestion confirmation of PDG 1661 using EcoRI and BamHI. 							
Result								
Discussion								
Remark								

		Week 11 (20)12.8.20-2012.	8.24)	
		Ke	ey Words:		
	Monday 2012.8.20	Tuesday 2012.8.21	Wednesday 2012.8.22	Thursday 2012.8.23	Friday 2012.8.24
Work done					
Result					
Discussion					

		Week 12 (20	012.8.27-2012.	8.31)	
		K	ey Words:		
	Monday 2012.8.27	Tuesday 2012.8.28	Wednesday 2012.8.29	Thursday 2012.8.30	Friday 2012.8.31
Work done			1		
Result					
Discussion			1		
Remark					

	Week 13 (2	2012.9.3-2012.9	9.7)				
Key Words:							
Monday Tuesday Wednesday Thursday Friday							
2012.9.3	2012.9.4	2012.9.5	2012.9.6	2012.9.7			
· · · · ·	Monday 2012.9.3	Ko Monday Tuesday	Key Words: Monday Tuesday Wednesday	Monday Tuesday Wednesday Thursday			

Week 14 (2012.9.10-2012.9.14)								
Key Words: pTms characterization; Biobrick shipment								
	Monday	Tuesday	Wednesday	Thursday	Friday			
	2012.9.10	2012.9.11	2012.9.12	2012.9.13	2012.9.14			
Work done								
Result								
Discussion								
Remark								

Week 15 (2012.9.17-2012.9.21)

Key Words: P _{xylA} characterization; Biobrick shipment								
	Monday 2012.9.17	Tuesday 2012.9.18	Wednesday 2012.9.19	Thursday 2012.9.20	Friday 2012.9.21			
Work done								
Result								
Discussion								
Remark								