07. (July) 2019

Project: iGEM_Munich2019 Shared Project

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TUESDAY, 30/7/2019

Transfection:

• 96 well plate for HiBit assay

• 6 well plate for Biotin purification

• 100µL medium out of the 150µL were exchanged in the 96 well plate. 1.5mL out of the 2mL medium were exchanged in the 6 well plate.

• time of transfection : 11:00 - 11:15

96 we	II plate fo	r HiBit t	ransfect	ion sche	eme							
	1	2	3	4	5	6	7	8	9	10	11	12
Α												
В		1	1	1	1	1	1	7	8	9	10	
С		2	2	2	2	2	2	7	8	9	10	
D		3	3	3	3	3	3	7	8	9	10	
Е		4	4	4	4	4	4	7	8	9	10	
F		5	5	5	5	5	5	7	8	9	10	
G		6	6	6	6	6	6	7	8	9	10	
Н												

6 well	6 well plate transfection s					
	1	2	3			
А	2	2	5			
В	4	4	5			

condi	tions							
	V8	V9	V10	V11	V14	V15	V27	V30
1	1	1	1	1	1	1	1	100
2	40	1	1	1	1	1	20	40
3	1	40	1	1	1	1	20	40
4	40	1	1	20	20	1	20	1
5	1	40	1	20	20	1	20	1
6	40	1	20	1	20	1	20	1
7	40	1	20	1	1	20	20	1
8	1	40	20	1	1	20	20	1
9	40	1	1	20	1	20	20	1
10	see below							

- -> condition 10 is 40ng V25 + 60nG V30
- -> for the 6.5 wells these ng respond to :
 - 20ng = 1.3μL
 - ∘ 40nG = 2.6µL
 - o 60ng = 3.9μL
 - \circ 100nG = 6.5 μ L

<u>Alejandro</u>

cell culture: Transfection

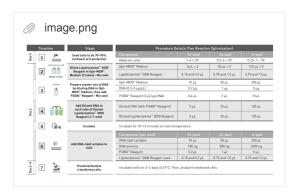
• 550 µL medium was exchanged before transfection

Table1							
	condition	V8	V11	V14	V27	V28	V30
1	Mock	-	-	-	-	-	500 ng
2	His	200 ng	100 ng	100 ng	-	100 ng	-
3	scAvidin	200 ng	100 ng	100 ng	100 ng	-	-

• Transfection:

Table2						
	Α	В				
1	DNA per well	500 ng				
2	P3000 Reagent per well	1 μL				
3	Lipofectamine 3000 reagent per well	0.75 μL				
4	OptiMEM per well	2 x 25 µL				

■ Transfect cells according to the following table. Use the indicated volume of DNA and P3000[™] Reagent with each of the two volumes of Lipofectamine[™] 3000 (when performing optimization). Each reaction mix volume is for one well and accounts for pipetting variations. Scale volumes proportionally for additional wells.



Moritz

cell culture: transfection

- note: cell density seemed low (40 %)
- every condition was transfected in 10 wells

Trans	ransfection scheme - qPCR 96-well plate 30/07/19 (ng per well)							
	Condition	V8	V10	V11	V14	V15	V17	V
1	1	-	-	-	-	-	-	100 ng
2	4	40 ng	-	20 ng	20 ng	-	20 ng	-
3	7	40 ng	20 ng	-	-	20 ng	20 ng	-

Transfection:

Transfectionmix 96-well plate 30/0						
	Α	В				
1	DNA per well	100 ng				
2	P3000 Reagent per well	0.2 μL				
3	Lipofectamine 3000 reagent per well	0.15 μL				
4	OptiMEM per well	2 x 5 μL				

Transfect cells according to the following table. Use the indicated volume of DNA and P3000™
Reagent with each of the two volumes of Lipofectamine™ 3000 (when performing optimization). Each reaction mix volume is for one well and accounts for pipetting variations. Scale volumes proportionally for additional wells.

