# 08. (August) 2019

Project: iGEM\_Munich2019 Shared Project

Authors: Johanna Wallner

TUESDAY, 20/8/2019

#### <u>Johanna</u>

Cell culture: Reuptake assay transfection:

• 500 ng/well, triplicates, 24-well plate (coated with poly-L-Lysine)

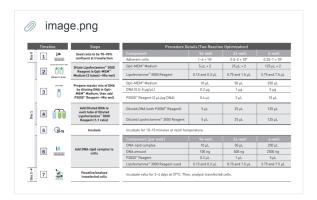
#### Transfection scheme - reuptake assay 20/08/19 condition V10 (L7Ae) V11 (MCP) V14 (MS2) V15 (C/D Box) V30 1 1 250 ng 250 ng 2 2 -125 ng 375 ng 125 ng 3 3 250 ng 125 ng 125 ng 4 4 250 ng 125 ng

- 1: negative control, 2: positive control (fluc), 3: MCP/MS2-System, 4: L7Ae/C/D-Box-System
- exchange 550 µL medium
- Transfection:

| Transfectionmix 24-well plate 20/0 |   |           |  |  |  |  |  |  |
|------------------------------------|---|-----------|--|--|--|--|--|--|
|                                    | Α   | В         |  |  |  |  |  |  |
| 1                                  | DNA per well                              | 500 ng    |  |  |  |  |  |  |
| 2                                  | P3000 Reagent per well                    | 1 µL      |  |  |  |  |  |  |
| 3                                  | Lipofectamine<br>3000 reagent<br>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.

file:///tmp/tmphBC2L2.html



transfection time: 11:30 a.m.attention: no Biotin-tag (V27)

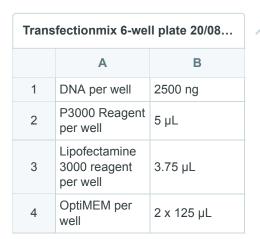
#### <u>Alejandro</u>

cell culture: Transfection for Purification and qPCR

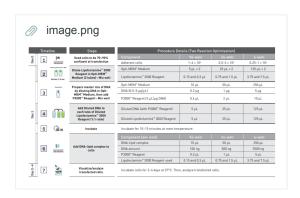
• time finished: 13:20 p.m.

note: in condition 6: 6 μL V10 were given mistakenly, not the supposed 5.25 μL

• 6-well plate



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



Transfection scheme

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### 08. (August) 2019 · Benchling

| Transfection scheme - Purification and qPCR 20/08/19 in ng per well |           |       |         |        |        |        |        |        |        |         |  |  |
|---|-----------|-------|---------|--------|--------|--------|--------|--------|--------|---------|--|--|
|   | condition | wells | V8      | V10    | V11    | V14    | V15    | V27    | V28    | V30     |  |  |
| 1   | 2         | 3     | 1000 ng | -      | -      | -      | -      | -      | -      | 1500 ng |  |  |
| 2   | 3         | 2     | 1000 ng | -      | 500 ng | 500 ng | -      | 500 ng | -      | -       |  |  |
| 3   | 4         | 1     | 1000 ng | -      | 500 ng | -      | 500 ng | 500 ng | -      | -       |  |  |
| 4   | 5         | 2     | 1000 ng | 500 ng | -      | -      | 500 ng | 500 ng | -      | -       |  |  |
| 5   | 6         | 1     | 1000 ng | 500 ng | -      | 500 ng | -      | 500 ng | -      | -       |  |  |
| 6   | 3H        | 2     | 1000 ng | -      | 500 ng | 500 ng | -      | -      | 500 ng | -       |  |  |
| 7   | 5H        | 2     | 1000 ng | 500 ng | -      | -      | 500 ng | -      | 500 ng | -       |  |  |

• qPCR-plate: 1 well with cond. 2, 3, 4, 5, 6 each

purification-plates

o scAvidin: 1 well with cond. 2, 3, 5 each

o His: 1 well with cond. 2, 2 wells with cond. 2H and 5H each

## Agar plate

• Chloramphenicol (3 plates; 25 µg/mL)

• Ampicillin (8 plates; 1:500 Ampicillin)

file:///tmp/tmphBC2L2.html