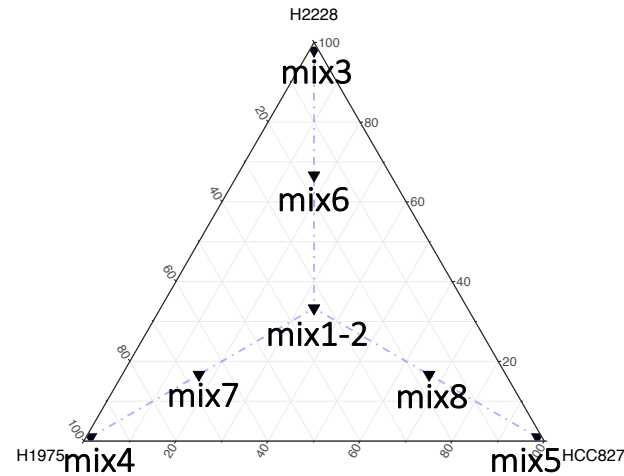
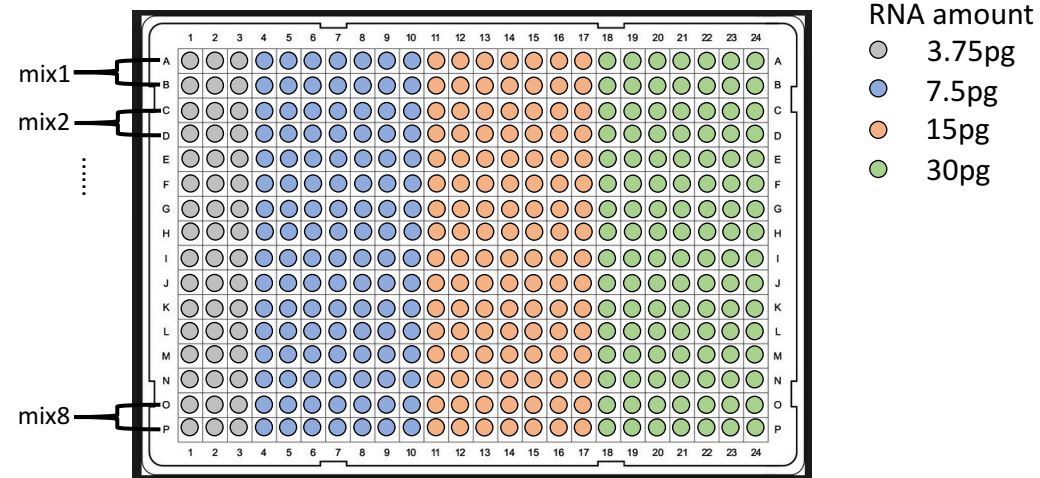


A. mRNA mixture design

A1. Mixing proportions



A2. Plate layout

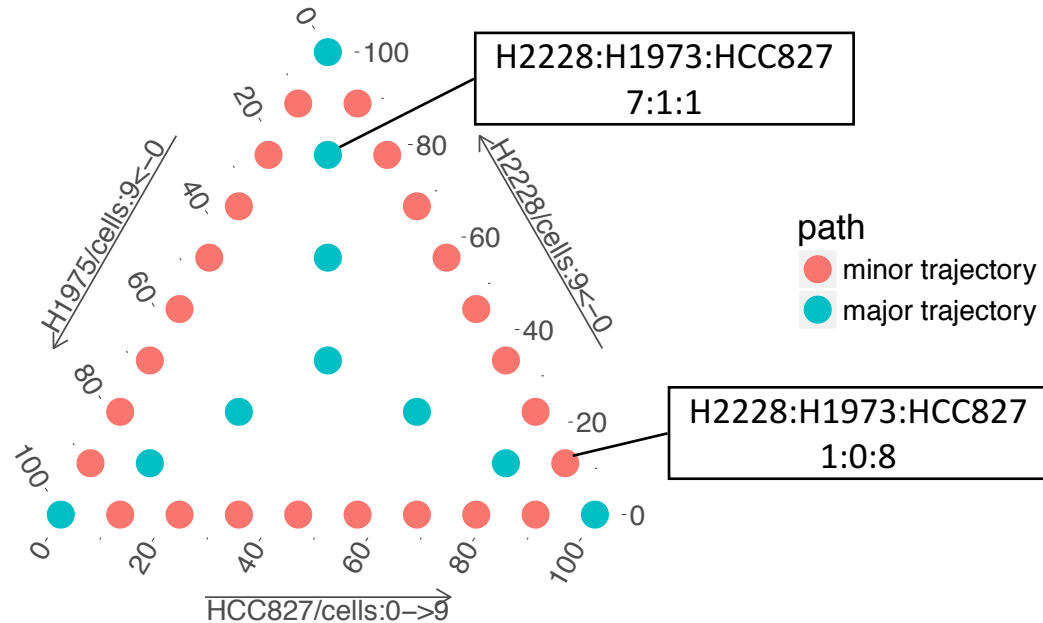


RNA amount

- 3.75pg
- 7.5pg
- 15pg
- 30pg

B. 9 cells mixture design

B1. 9 cell combinations



B2. experiment design

- X20 replicates for each 9-cell combination+ X3 replicates for 90-cell combination
- X5 replicates for each 9-cell combination

Trajectory design

- 10 replicates of 3-cell with 1:1:1 combination to mimic small cells
- 9 replicates of sorted poor quality 9 cells with 3:3:3 combination

Quality control design