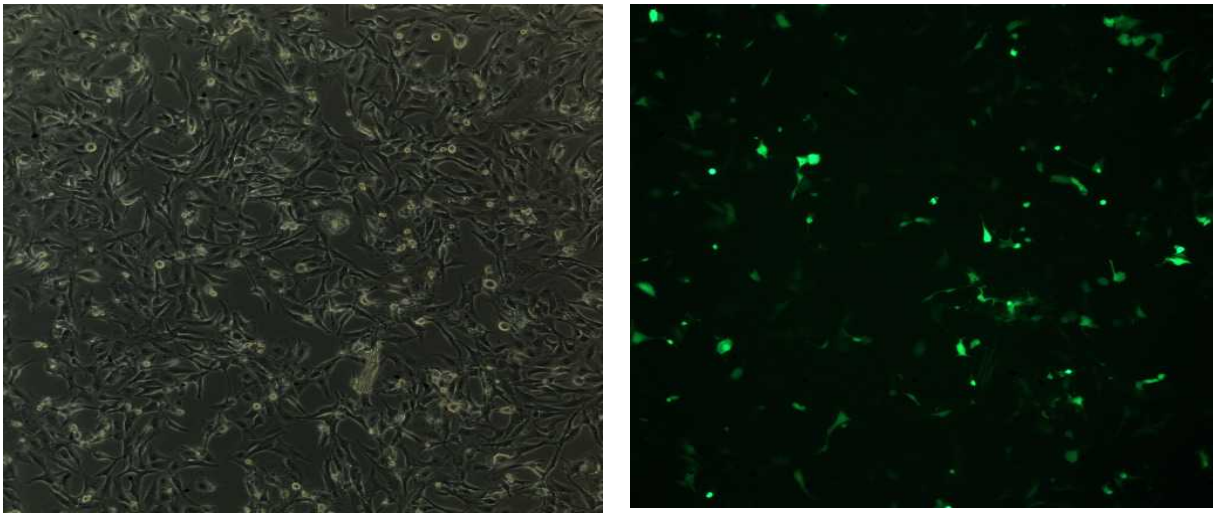
Plasmid transfection of CALU-1 cells (human lung epidermoid carcinoma) with the K2 Transfection System

Kiflai Bein, Universtity of Pittsburgh, Department of Environmental and Occupational Health, 100 Technology Dr. #562, Pittsburgh, PA 15219, USA.

Method:
CALU-1 cells (ATCC, HTB-54) were seeded in a 24-well plate (0.1 x 10^6 cells/well) in McCoy's 5A medium modified (ATCC, 30-2007) supplemented with 10% FBS. The next day, the medium was removed, cells were washed 1x with PBS and fresh medium containing 10%FBS without antibiotics was added (0.3 ml well). peGFP-C1 plasmid DNA (0.6 ug/well) was incubated with K2 transfection reagent (0.6 ul/well, no multiplier) according to the manufacturers' instructions. Lipoplexes were added and the cells incubated overnight. The next day the culture medium was removed and fresh medium added. After 24 hours, cell morphology and eGFP fluorescence was checked microscopically.

Results:



Conclusion:
CALU-1 could be successfully transfected with the K2 Transfection System. The cells show a healthy morphology.