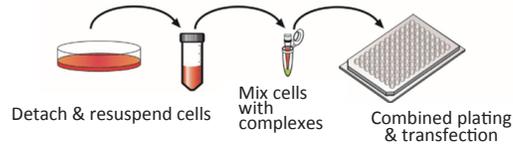
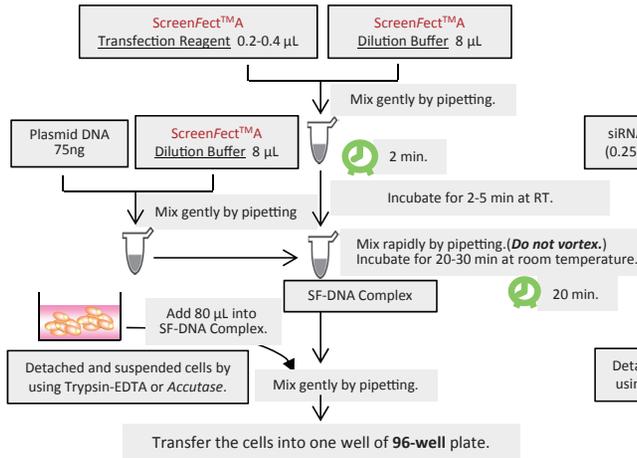


Protocol

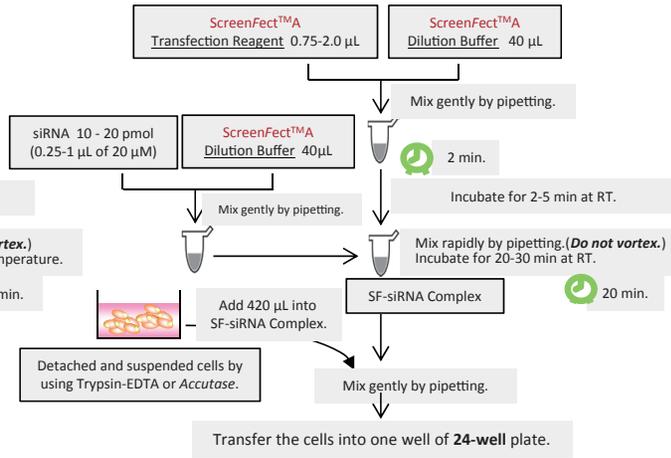
(RT: room temperature)



DNA Transfection (96 well)



siRNA Transfection (24 well)



Transfection Efficiency

| Cell Strain | Nucleic Acid | Scale | Transfection Efficiency (Time required for detection) | Indication |
|-------------|--------------|-----------|---|--------------------------|
| HEK293 | DNA | 6-96 well | 70 - 98 % (24-48 h) | GFP |
| HEK293 | DNA | 6-96 well | 70 - 98 % (24-48 h) | Luciferase |
| HeLa | DNA | 6-24 well | 50 - 70% (24-48 h) | GFP |
| MCF7 | siRNA | 6 well | 70 - 98% (48h) | Specific Gene Expression |
| MEF | DNA | 6 well | 20 - 50 % (24-48 h) | GFP |
| mC3T3 | DNA | 6 well | 50 - 70 % (24-48 h) | GFP |
| LO2 | DNA | 12 well | 20 - 50 % (48h) | antibiotic-resistant |
| MCF-10A | siRNA | 6-12 well | 10 - 20 % (48h) | GFP |
| HepG2 | DNA | 6 well | 50 - 70 % (48h) | GFP |
| Du14S | DNA | 6-12 well | 10 - 20% (24h) | GFP |

| Cell Strain | Nucleic Acid | Scale | Transfection Efficiency (Time required for detection) | Indication |
|-------------|--------------|-----------|---|--------------------------|
| RAW264.7 | DNA | 6 well | 20 - 50 % (24-48 h) | GFP |
| HL7704 | miRNA | 6 well | 70 - 90% (48h) | Specific Gene Expression |
| H9C2 | DNA | 6 well | 10 - 20 % (48) | GFP |
| U937 | DNA | 6 well | 20 - 50 % (24-48 h) | GFP |
| HepG2 | DNA | 24 well | 50 - 70 % (12h) | GFP |
| HUVEC | DNA | 24 well | 10 - 20 % (24 - 48h) | GFP |
| THP-1 | miRNA | 6 well | 60 - 80% | Specific Gene Expression |
| PLC8024 | DNA | 12 well | 10 - 20 % (48h) | GFP |
| mES | DNA | 6-24 well | 40 - 60 % (24-48 h) | GFP |
| HEp-2 | DNA | 6-24 well | 50 - 70 % (48h) | GFP |

Application data as of April, 2013

Examples of Cell Lines Successfully transfected with ScreenFect™ A Transfection Reagent

| No. | Cell Strain | Source | No. | Cell Strain | Source |
|-----|-------------|----------------------------------|-----|-------------|--|
| 1 | HEK293 | human embryonic kidney cells | 18 | H9C2 | rat myoblast cells |
| 2 | HELA | cervical cancer cells | 19 | U937 | human histiocytic leukemia cells |
| 3 | MCF7 | breast cancer cells | 20 | HUVEC | human umbilical vein endothelial cells |
| 4 | A431 | epidermoid carcinoma cells | 21 | HL7704 | human adult hepatocyte cells |
| 5 | MEF | mouse embryonic fibroblasts | 22 | BEL7402 | human hepatocellular carcinoma cells |
| 6 | mESC | mouse embryonic stem cells | 23 | THP-1 | human acute monocytic leukemia cells |
| 7 | PAC2 | fibroblast zebrafish cells | 24 | SK-Hep1 | human liver adenocarcinoma cells |
| 8 | MTPa | mammary adenocarcinoma cells | 25 | 786-O | human kidney carcinoma cells |
| 9 | AB9 | caudal fin of adult zebrafish | 26 | HKC-8 | human renal proximal tubular cells |
| 10 | Ins-1 | murine insulinoma cells | 27 | NE3 | human esophageal immortalization cells |
| 11 | P388D1 | Macrophages | 28 | PLC8024 | human hepatoblastoma cells |
| 12 | M3CT3-E1 | osteoblast like cell line | 29 | NIH3T3 | mouse embryonic fibroblast cells |
| 13 | LO2 | human hepatic cells | 30 | MG6 | mouse microglia cells |
| 14 | MCF-10a | human mammary epithelial cells | 31 | MDCK | madin-Darby canine kidney cells |
| 15 | HepG2 | human liver carcinoma cells | 32 | Cos-7 | monkey Kidney Fibroblast cells |
| 16 | Du14S | human prostate carcinoma cells | 33 | HEp-2 | human epidermoid cancer cells |
| 17 | RAW264.7 | murine macrophage leukemia cells | 34 | | Primary cells form Liver tissue |