

Quick Reference Guide to CLONING with **CLONEX**® and Root Riot™

Gel • Solution • Mist

Materials Needed

- CLONEX Gel • CLONEX Clone Solution • CLONEX Mist
- Root Riot Starter Cubes • Tray/Insert • Humidity Dome
- Water (*RO is optimal*) • Measuring device for liquids
- Shot Glass • Scalpel (*Scissors not recommended*)
- Rubbing Alcohol • Paper Towel or Clean Towel
- Nitrile Gloves • Glass of Water
- Donor Plant (Mother Plant)

Environment

- Temperature Range: 70 - 78°F (*75°F is optimal*)
- Humidity Range: 80%+ for first 5 to 7 days
- CO2 Range: 380 - 500 ppm
- Lighting designed for Cloning/Plant Propagation

Procedures

- Prepare Mother Plant •

- 1** Foliar feed Mother Plant with CLONEX Mist 2-3 *days* prior to taking clones
- 2** Thoroughly hydrate Mother Plant at least 5 *hours* prior to taking clones

- Prepare Work Area & Tools •

- 1** Put on Nitrile Gloves
- 2** Sterilize Scalpel and work area with Rubbing Alcohol
- 3** Pour amount of CLONEX Gel needed into Shot Glass
- 4** Reseal the container *Pro Tip: to avoid contamination, DO NOT dip clones into container, DO NOT pour unused CLONEX Gel from shot glass back into container*

- 5** Put Root Riot Cubes into Tray/Insert
- 6** Mix 5-10mL CLONEX Clone Solution into 1 QT/L of Water
- 7** Prior to taking clones, pour prepared nutrient solution over the Root Riot Cubes, then completely drain off any remaining solution from the tray

• Taking a Clone •

- 1** Identify branches on the lower part of Mother Plant with multiple leaf nodes and strong growing tips
- 2** Cut just below a node at 45° angle; Place clone in Water
- 3** Dip clone into CLONEX Gel
- 4** Gently insert stem of clone into Root Riot Cube
- 5** When tray is full, lightly mist with CLONEX Mist -
Avoid over spraying In low humidity environments, mist the inside of a Humidity Dome with water and cover Tray
- 6** Repeat misting clones with CLONEX Mist every 2 days
Stop using CLONEX Mist once clones are transplanted.

Care for Clones

- 1** Lighting should remain constant (on for 24hr/day)
- 2** After 3-4 days, mix CLONEX Clone Solution with water to reach EC 1.0-1.5, adjust pH to 5.8-6.2 and feed clones; repeat every 3-4 days or as needed; *Briefly remove Humidity Dome once a day to replenish CO₂*
- 3** When roots emerge from cube, feed rooted clones every 1-2 days with EC 1.2-1.6 solution
Vent Humidity Dome to start the hardening off process
- 4** Transplant clones when fully rooted

