



# Miniprep Master™

Its a revolutionary system that guides you every step of the way to a faster and better plasmid DNA miniptep.

**Miniprep Master™** features the world's most innovative rotor technology allowing users to seamlessly semi-automate and perform the following functions with ease and accuracy:

**Gentle bacterial pellet re-suspension system.**

**Innovative mixing of the Lysis and Neutralizing buffers, avoiding formation of bubbles and leaking of lysate.**

**Pre-set programs for each step of nucleic extraction process.**

**Elevation of temperature within the rotor chamber occurs in the final step, thus increasing the plasmid yield.**

**Mix, Spin and Shake functions.**

**Custom program for use with any extraction kit.**

**Reduces user error.**

**Saves reagents.**

**Produces repeatable and accurate results.**

**Miniprep Master™** is compatible with all major commercial plasmid isolation kits (Qiagen, Thermo Scientific, Sigma).

This patented system allows users to quickly isolate bacterial plasmid DNA. Users spend up to 25% less time with our **Miniprep Master™** semi-automated vortex and mixing functions.

These unique features make **Miniprep Master™** a necessary tool for obtaining high quality plasmid DNA for all downstream applications.



## Comparison

1/4 or up to 25% faster than regular method!



# Miniprep Master™ step by step protocol .



Centrifuge E. coli culture

**1**

Timer	off	<b>F1</b>
Mixer	00	
Timer	01 min	
RPM	10000 min <sup>-1</sup>	

Load of the plasmid containing bacterial lysate on silica spin column

**5**

Timer	off	<b>F5</b>
Mixer	00	
Timer	20 sec	
RPM	13500 min <sup>-1</sup>	

## Technical features

- Plasmid DNA miniprep
- Fast plasmid DNA miniprep
- Variable speed vortex

- Plasmid DNA miniprep applications
- 12 speed levels vortex
- Quiet operation
- Vivid color LCD display
- Imbalance control system with motion detector
- Strong motor, generates minimum heat
- Patented motor control driver
- Ultra-smooth vibration-free run, due to unique drive chassis

## Interface



Custom-designed **Miniprep Master™** interface offers outstanding clarity. It is easy to navigate and to use in different applications.



Using the sound, brightness and language options everyone can make the machine more personal and adequate the current operation environment.



Main control buttons are made of soft tactile rubber and are located separately from the adjustment panel to insure best user experience.

Resuspend bacterial pellet

**2**

Timer	20 sec	<b>F2</b>
Mixer	12	
Timer	off	
RPM	00000 min <sup>-1</sup>	

Wash silica spin column

**6**

Timer	off	<b>F6</b>
Mixer	00	
Timer	20 sec	
RPM	13500 min <sup>-1</sup>	

Perform lysis of bacterial cells

**3**

Timer	20 sec	<b>F3</b>
Mixer	01	
Timer	10 sec	
RPM	01000 min <sup>-1</sup>	

Centrifuge silica spin column

**7**

Timer	off	<b>F7</b>
Mixer	00	
Timer	01	
RPM	13500 min <sup>-1</sup>	

Neutralise bacterial lysate and centrifuge debris

**4**

Timer	40 sec	<b>F4</b>
Mixer	01	
Timer	05 min	
RPM	13500 min <sup>-1</sup>	

Elute plasmid DNA from the silica spin column

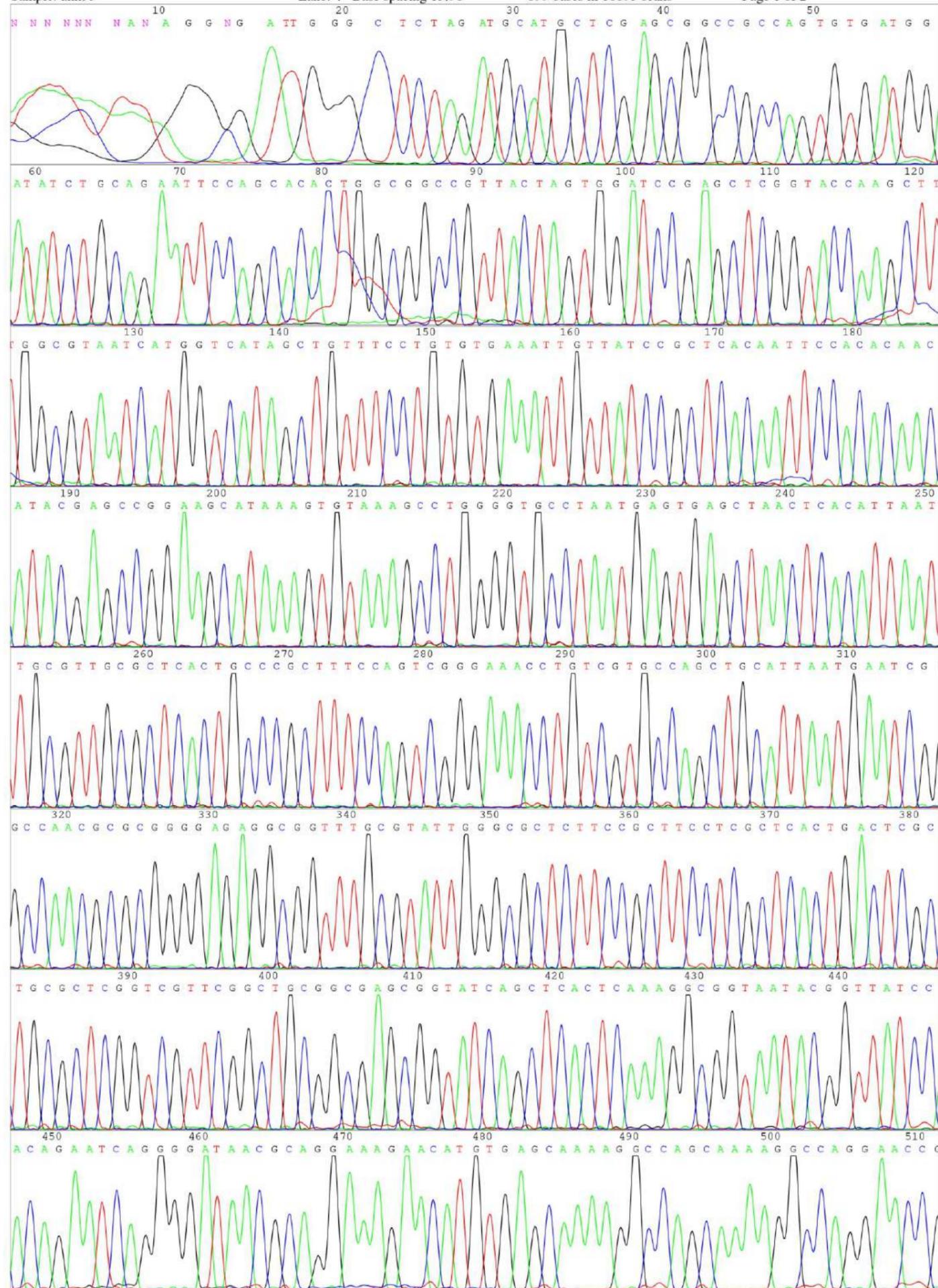
**8**

Timer	off	<b>F8</b>
Mixer	00	
Timer	01 min	
RPM	13500 min <sup>-1</sup>	

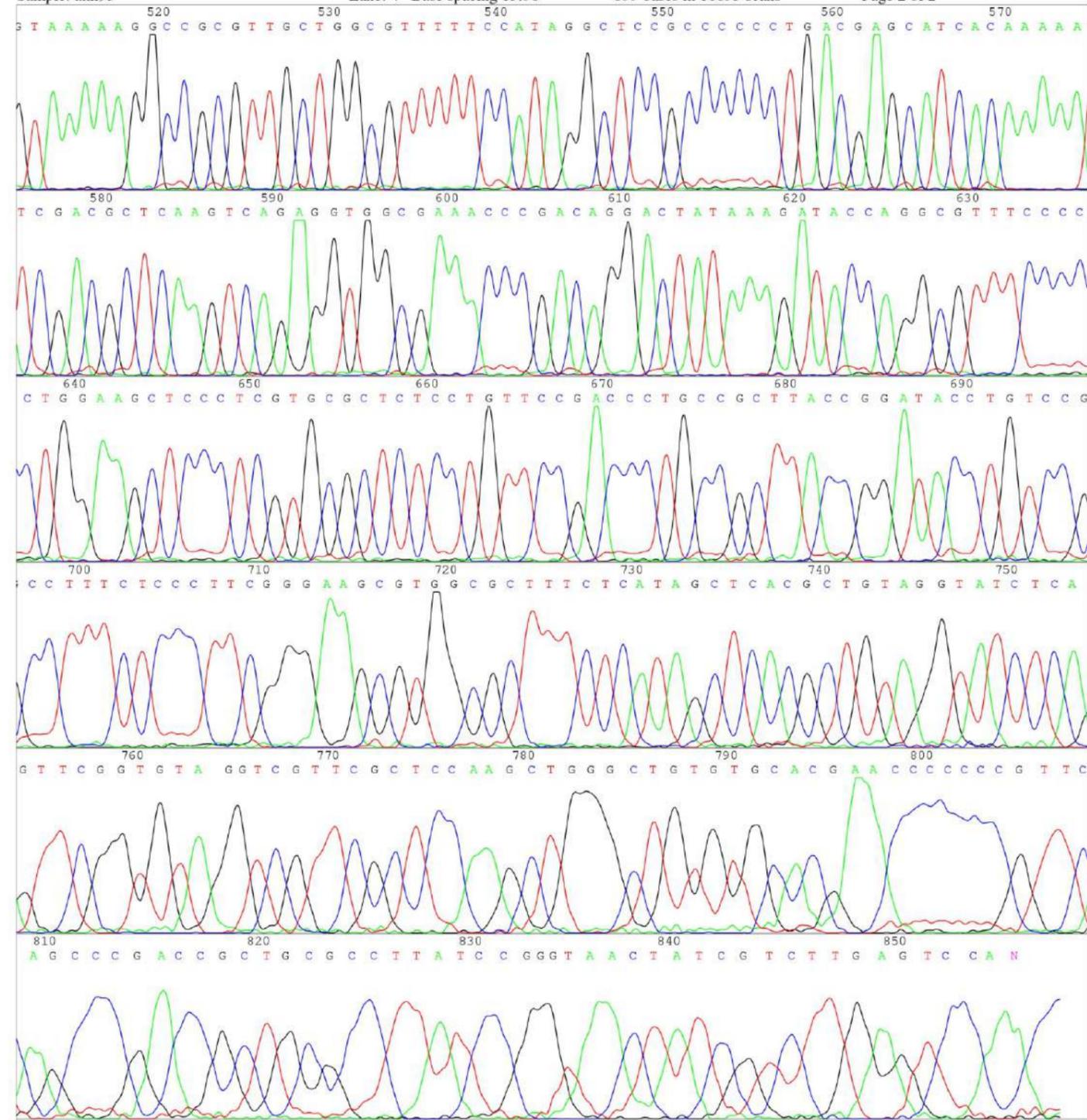
DNA

# Miniprep Master™ Sequencing data

File: anh93\_2014-04-16\_1397679565296.ab1 Run Ended: Apr 16, 2014, 22:19:10 Signal G:387 A:256 T:245 C:282  
 Sample: anh93 Lane: 4 Base spacing 13.50 855 bases in 10853 scans Page 1 of 2



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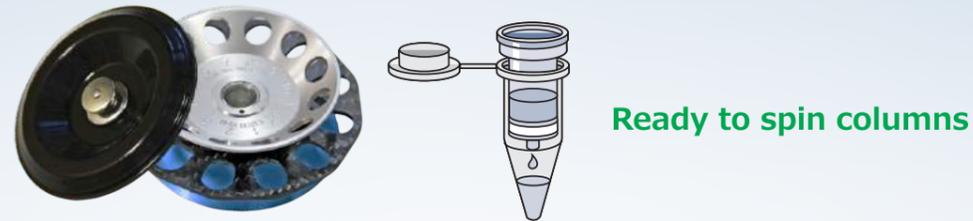


Gel electrophoresis.

## Plasmid DNA characteristics.

- CCC form of plasmide
- Clear from RNA
- Cuts perfectly with restriction enzyme





## CarbonSpin™

**Miniprep Master™** features our patented CarbonSpin rotor. This rotor is composed of precisely machined proprietary aluminum alloy, significantly improving efficiency and ventilation. To reduce the rotors weight while simultaneously increasing efficiency during intensive shake cycles, a custom carbon fiber layer stability ring was implemented. The dependable design allows the user to spin and vigorously shake any substance, including heavy beads, for as long as the experiment requires. Rotor is provided with a specially designed lid, that allows to spin tubes with caps open loaded with columns.

## Technical specifications

Centrifugation speed	RPM	up to 13500
Maximum centrifugal force	RCF	12388
Timer	min	from 0.1 up to 99
Number of vortexing modes		12
Plasmid DNA extraction modes		2
Number of centrifuge brake levels		5
Total test tubes imbalance limit	g	0.7
Dimensions (L x W x H)	mm	200x180x145
Power supply adapter		24 VDC, 5A
Weight	Kg	3.1