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PRODUCT: Mate & Plate™ Library - Human Heart

CATALOG No. 630471

LOT NUMBER: 1109431A

STORAGE CONDITIONS

Store all components at -70°C .
Do not refreeze.

SHELF LIFE

1 year from date of receipt under proper storage conditions.

SHIPPING CONDITIONS

Dry ice (-70°C).

mRNA SOURCE

Normal, whole hearts pooled from 3 male Caucasians, ages: 33, 55, and 55; cause of death: trauma

NOTE: No further information on the mRNA source was made available to Clontech.

FOR RESEARCH USE ONLY

DESCRIPTION

Human heart cDNA library transformed into yeast strain Y187. The library can be readily mated to a *MATa* GAL4 reporter strain, such as AH109 or Y2HGold (1).

PACKAGE CONTENTS

- 5 x 1.0 ml Mate & Plate Library - Human Heart
- 1 x 1.0 ml Mate & Plate Library - Control (pGADT7-T in Y187)

OTHER

- Matchmaker™ Gold Yeast Two-Hybrid User Manual (PT4084-1)
- pGADT7-Rec Vector Information (PT3530-5)

CLONING VECTOR: pGADT7-Rec

PRIMING METHOD: oligo-(dT)

YEAST GENOTYPE (Y187): *MAT α* , *ura3-52*, *his3-200*, *ade2-101*, *trp1-901*, *leu2-3, 112*, *gal4 Δ* , *gal80 Δ* , *met-*, *URA3 :: GAL1_{UAS}-GAL1_{TATA}-LacZ*, *MEL1*

QUALITY CONTROL DATA

1. Library Construction Notes

This library was constructed using homologous recombination-mediated cloning directly in the Y187 yeast strain.

2. Library Information

- | | |
|----------------------------------|-----------------------------|
| A. Titer (yeast colonies): | $\geq 5 \times 10^7$ cfu/ml |
| B. Number of independent clones: | 1.15×10^7 |
| C. Insert size range: | 0.5 to ≥ 3 kb |

The insert size range is determined by examination of an agarose/EtBr gel of the cDNA prior to cloning.



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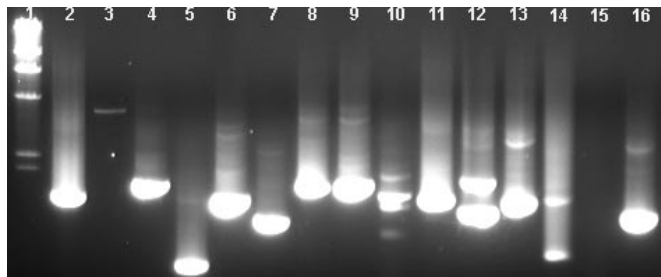
QUALITY CONTROL DATA continued

3. Library Insert Size Range Analysis

15 yeast colonies were randomly picked and then screened by PCR using the Matchmaker™ AD LD-Insert Screening Amplimer Set (Cat. No. 630433)

14 of 15 colonies contained inserts as determined by PCR.

Lane 1. 1-kb DNA ladder
2. 1.05 kb
3. 4.20 kb
4. 1.24 kb
5. 0.35 kb
6. 0.94 kb
7. 0.69 kb
8. 1.24 kb
9. 1.19 kb
10. 1.05 kb
11. 0.98 kb
12. 0.78 kb
13. 0.94 kb
14. 0.98 kb
15. No insert
16. 0.72 kb

**REFERENCES**

1. Pretransformed Mate & Plate™ Libraries (January 2008) *Clontechniques* XXIV(1):26-27.

Mate & Plate™ Library - Human Heart

CATALOG NO.

630471

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