1. Quality Control Data

A. Titer (yeast colonies): \( \geq 5 \times 10^7 \) cfu/ml

B. Number of independent clones: \( 2.8 \times 10^6 \)

C. Average cDNA size: 1.58 kb

D. cDNA size range: 0.7 – 2.8 kb

(The cDNA was size-selected by excision from an agarose gel prior to cloning)

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QUALITY CONTROL DATA continued

2. Quality Control Data for the Pretransformed Library in Yeast

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

15 of 15 colonies contained inserts as determined by PCR.

Lane | DNA ladder | Lane |
--- | --- | --- |
1 | 1 kb DNA ladder | 2 | 1.58 |
3 | 1.5 | 4 | 2.14, 1.58 |
5 | 1.5 | 6 | 1.31 |
7 | 1.55 | 8 | 1.97, 1.72, 1.47 |
9 | 2.07, 1.66 | 10 | 2.63 |
11 | 1.24, 0.5 | 12 | 2.45 |
13 | 2.07, 1.28, 0.9 | 14 | 1.47 |
15 | 1.42 | 16 | 1.37 |

3. cDNA Normalization

cDNA generated using SMART™ technology was normalized using Duplex-Specific Nuclease (DSN) normalization (2, 3). Prior to cloning, the efficiency of normalization was assessed by virtual Northern blot analysis (4) comparing the abundance of GAPDH and ß-actin in normalized and non-normalized mouse cDNA.

Figure 1. DSN-Normalization reduces the amount of highly abundant transcripts. Normalized (Lanes N) and non-normalized (Lanes C) Mouse Universal cDNA samples (PCR products) were electrophoresed on a 1.5% agarose gel and transferred to Hybond-N membrane. PCR-amplified probes of GAPDH and ß-actin were labeled with 32P-dATP and hybridized to the membrane. GenBank Accession numbers: GAPDH, NM_002046 and ß-actin, NM_001101.

REFERENCES
Notice to Purchaser

Mate & Plate™ Library - Universal Mouse (Normalized)

CATALOG NO.
630483

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