1. Quality Control Data
   A. Titer (yeast colonies): $\geq 5 \times 10^7$ cfu/ml
   B. Number of independent clones: $1.13 \times 10^7$
   C. Average cDNA size: 1.20 kb
   D. cDNA size range: 0.4 – 1.9 kb

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

Continued on back of page.
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 M. 1 kb DNA ladder
1. 1.84 kb
2. 1.43 kb
3. 1.20 kb
4. 1.20 kb
5. 0.96 kb
6. 1.20 kb
7. 0.96 kb
8. 1.25 kb
9. 0.44 kb
10. 1.88 kb
11. 1.20 kb
12. 1.25 kb
13. 1.09 kb
14. 0.87 kb
15. ------ kb

3. cDNA Normalization

cDNA generated using SMART technology was normalized using Duplex-Specific Nuclease (DSN) normalization (1, 2). Prior to cloning, the efficiency of normalization was assessed by virtual Northern blot analysis (3) comparing the abundance of GAPDH and β-actin in normalized and non-normalized mouse brain cDNA.

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

REFERENCES
Notice to Purchaser

Mate & Plate™ Library - Mouse Brain (Normalized)

CATALOG NO.

630488

NOTICE TO PURCHASER:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of Clontech Laboratories, Inc.

Your use of this product is also subject to compliance with the licensing requirements listed below and described on the product’s web page at http://www.clontech.com. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

TRADEMARKS:

Clontech, the Clontech logo, Matchmaker, SMART, and Mate & Plate are trademarks of Clontech Laboratories, Inc.

All other marks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions. Clontech is a Takara Bio Company. ©2015 Clontech Laboratories, Inc. This document has been reviewed and approved by the Clontech Quality Assurance Department.

Clontech Laboratories, Inc.
A Takara Bio Company
1290 Terra Bella Avenue, Mountain View, CA 94043, USA
U.S. Technical Support: tech@clontech.com

<table>
<thead>
<tr>
<th>United States/Canada</th>
<th>Asia Pacific</th>
<th>Europe</th>
<th>Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>800.662.2566</td>
<td>+1.650.919.7300</td>
<td>+33.(0)1.3904.6880</td>
<td>+81.(0)77.543.6116</td>
</tr>
</tbody>
</table>

11/20/2015