

S03 Custom cDNA Library Construction

Why use our custom cDNA library construction services?

Genetic screening systems like the classical **yeast two-hybrid system** or the **DUALmembrane system** rely on high-quality, high-complexity cDNA libraries to identify new protein-protein interactions. However, constructing such cDNA libraries can be challenging and time-consuming.

To help you with cDNA library construction, Dualsystems offers a custom construction service:

- Profit from our experience in constructing high-quality cDNA libraries
- We construct libraries for the classical yeast two-hybrid system, the DUALmembrane and DUALhunter systems or using a vector of your choice
- Stringent quality control ensures high-complexity libraries with large insert sizes
- You receive ready-to-use plasmid DNA and primary stocks for later amplification

How does cDNA library construction work?

We construct our cDNA libraries using a proprietary adapter ligation method to ensure directional cloning of large cDNA inserts and high complexities. Controlled amplification of cDNA allows us to start with very low amounts of RNA.

- Supply us with cells, tissue, total or polyA+ RNA. Alternatively, we can also purchase the RNA for you
- We construct the cDNA library, carry out a primary amplification and purify plasmid DNA
- You receive purified plasmid DNA and glycerol stocks for later amplification of the library and a datasheet with all library parameters

Why choose Dualsystems?

- **Know-how:** more than five years worth of experience constructing cDNA libraries
- **Flexibility:** we construct the cDNA library of your choice
- **Quality:** high-complexity, large insert libraries ensure optimal screens

You supply us with cells, tissue, total RNA or polyA+ RNA

We perform

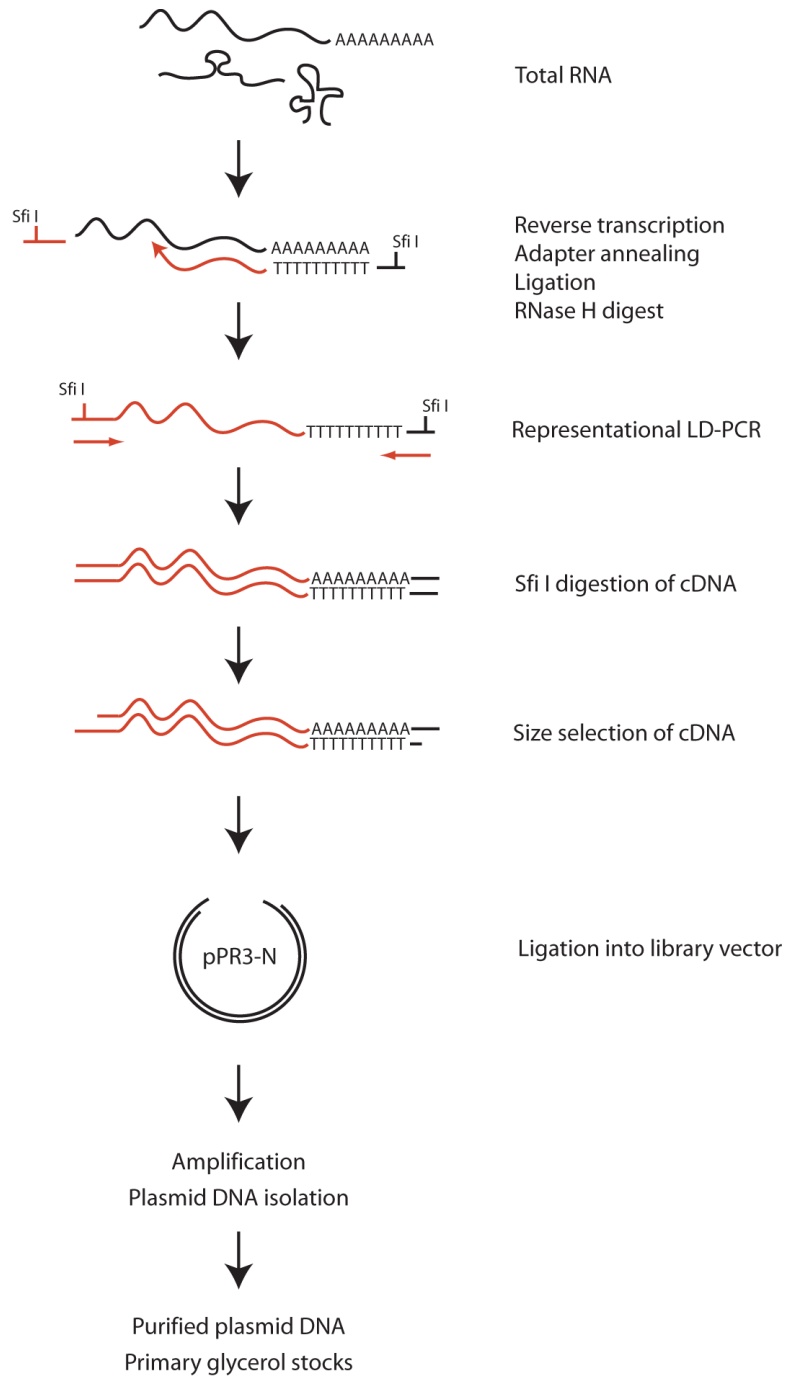
- Quality control on Experion
- 1st strand synthesis
- Adapter ligation
- Second strand synthesis and amplification
- Size selection
- Ligation into vector of your choice
- Primary amplification

You receive

- Purified plasmid DNA
- Primary glycerol stocks
- Library datasheet with all specifications

Duration: 2 months

Construction process



Would you like additional information?

Please visit our website at www.dualsystems.com!