

Primer Walking

Sample Submission Guide for the Primer Walking Sequencing Service

DNA & PRIMER CONCENTRATION & VOLUME

Sample type	Sample concentration	Sample volume
Plasmid DNA	Min 100 ng/μl	Min 15 μl
PCR Products	Min 10 ng/μl	Min 15 μl
Enclosed Primer	10 pmol/μl	15 μl*

Service type	Sample type	Total amount
Single strand	Plasmid DNA	Min 1 μg/kb
Single strand	PCR Products	Min 100 μg/kb
Double strand	Plasmid DNA	Min 2 μg/kb
Double strand	PCR products	Min 200 μg/kb

OPTIMUM PRIMER CONDITIONS

- The optimum primer length is 16-25 bases
- Primer melting temperature (T_m) should be 50-62° C
- The GC content of the primer should be 35-60 %
- Ideally one G or C should be located at the 3' primer end
- The number of 3' Gs or Cs should not exceed 2 Gs or Cs
- If possible, avoid >3 identical bases in a row in the sequence
- Primers must not contain phosphorylation or fluorescent dyes

Where to send samples

BY DROPBOX

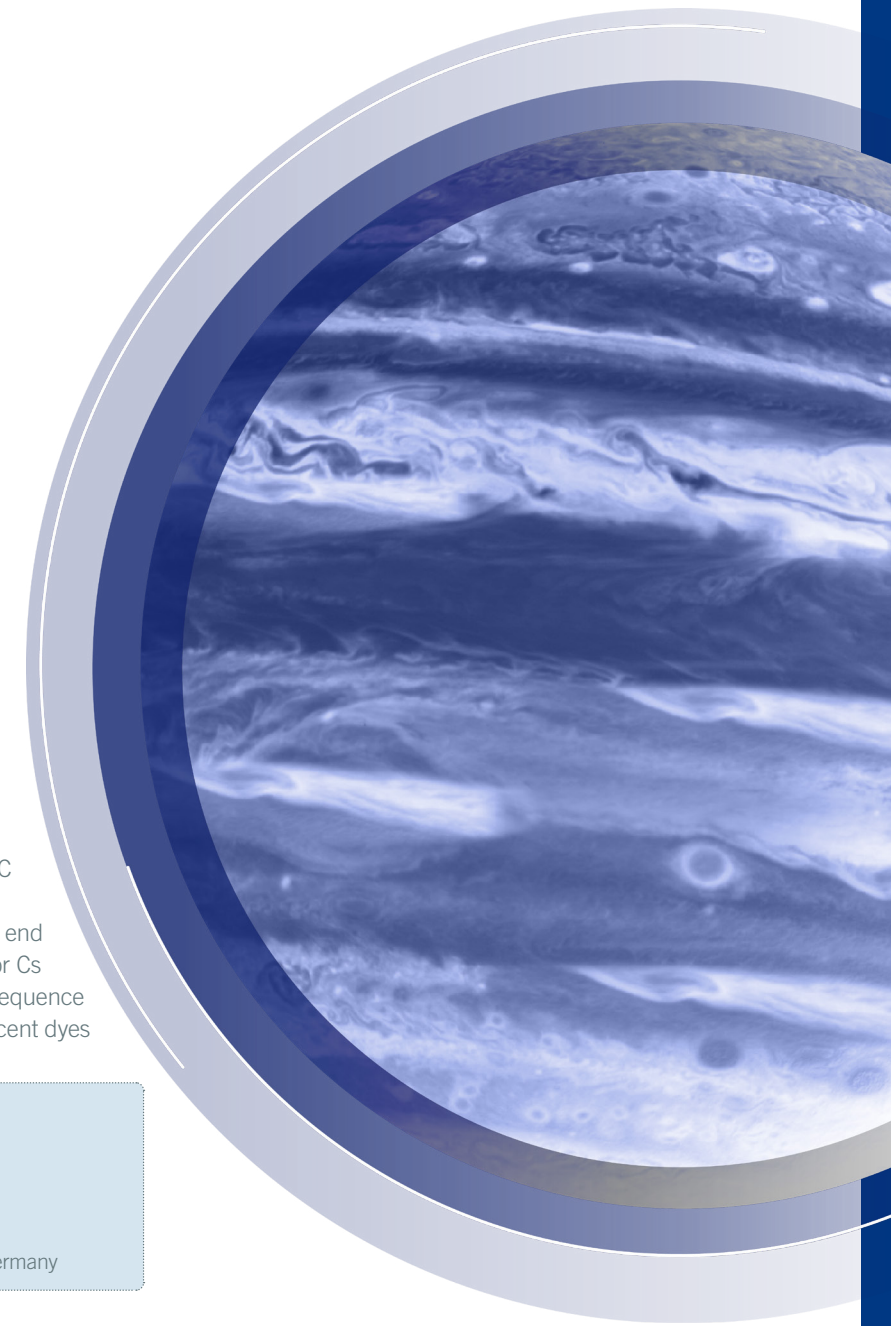
There are many DropBoxes installed throughout Europe for free sample shipment.

BY POST:

Eurofins Genomics Sequencing GmbH
Anzinger Str. 7a
85560 Ebersberg, Germany

*Primer must have a volume of 15 μl (double distilled water or 5 mM Tris-HCl); 5 μl of primer is required for every additional sequencing reaction

Quantify the DNA concentration via agarose gel or a photometer to ensure accurate results.



Sample Preparation & Submission.

1.



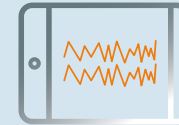
2.



3.



4.



1. DEFINE REACTIONS

Login to your Eurofins Genomics account. Choose “Primer Walking” in the order menu.

Define your reactions on the order page and allocate the barcode ID of the Tube Label to your sample.

2. PREPARE SAMPLES

Use 1.5ml safe-lock tubes. Affix the Tube Label on your sample tube.

Please don't use parafilm to seal your tubes!

3. SUBMIT SAMPLES

Use a DropBox to benefit from free sample pick-up or ship directly to our sequencing lab in Ebersberg.

Make sure to pack your samples safely.

4. DOWNLOAD RESULTS

You will get informed once your data is ready to download from your Eurofins Genomics account.

” **Please note:** Sending us a reference sequence speeds up project time and allows us to define multiple primers right from the start!

Additional Service & Information

» If you need barcodes for your sample tubes or enclosed primers, visit us [here](#)

» To find your closest DropBox, login to your account and [click on “My DropBoxes”](#)

» Do you need boxes for safe shipment of your sample tubes? [Visit us here](#)



USE OUR FREE SEQUENCING PRIMER DESIGN TOOL TO DESIGN THE OPTIMUM SEQUENCING PRIMERS

If you search for the perfect sequencing primer, you will love our SeqPrimer and Standard Primer (incl. NightXpress shipping options). Test them with a 25,- Euro voucher (or equivalent national currency). Simply use the promotion code “OLIGOPLANET” during check-out.

