

# TubeSeq

## Sample Submission Guide for the TubeSeq Sequencing Service

### DNA & PRIMER CONCENTRATION & VOLUME

Sample type	Product length	Sample conc.	Vol. 1-4 rct.	Vol. 5-8 rct.
Plasmid DNA	<30 kbp	50-100 ng/μl	15 μl	20 μl
BAC/PAC/Cosmid DNA	30-200 kbp	200-1000 ng/μl	15 μl	20 μl
Purified PCR Products	150-300 bp	1 ng/μl	15 μl	20 μl
	300-1000 bp	5 ng/μl	15 μl	20 μl
	1000-3000 bp	10 ng/μl	15 μl	20 μl
Unpurified PCR Products	150-300 bp	4 ng/μl	15 μl	20 μl
	300-1000 bp	10 ng/μl	15 μl	20 μl
	1000-3000 bp	20 ng/μl	15 μl	20 μl
Enclosed Primer	16-25 bases	10 pmol/μl	15 - 30 μl*	35 - 50 μl*

\*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.

### OPTIMUM PRIMER CONDITIONS

- The optimum primer length is 16-25 bases
- Primer melting temperature (T<sub>m</sub>) 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

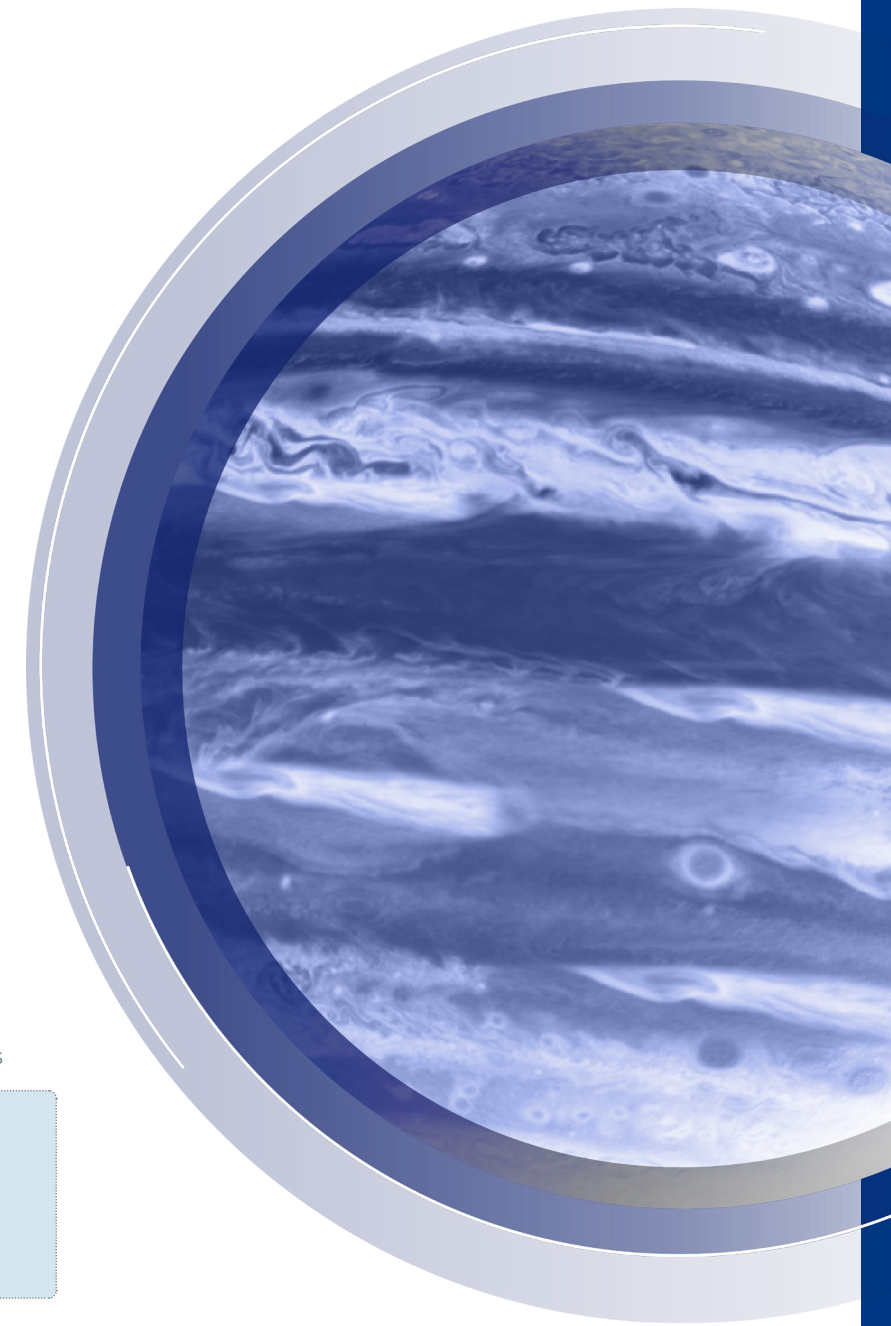
### Where to send samples

#### BY DROPBOX

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

#### BY POST:

Eurofins Genomics Sequencing GmbH  
Gottfried-Hagen-Straße 20  
51105 Köln



# Sample Preparation & Submission.

1.

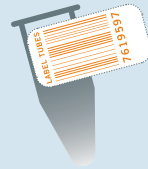


## 1. DEFINE REACTIONS

Login to your Eurofins Genomics account. Choose "TubeSeq Service" in the order menu.

Define your reactions on the order page and allocate the barcodes to your reactions.

2.



## 2. LABEL TUBES

Affix the barcode on your sample tube. Use our Tube Labels for enclosed primers.

Please don't use parafilm to seal your tubes!

3.

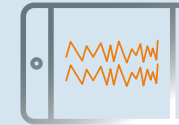


## 3. SUBMIT SAMPLES

Use a DropBox to benefit from free sample pick-up.

Make sure to pack your samples safely.

4.



## 4. DOWNLOAD RESULTS

You will receive an email once your data is ready to download from your Eurofins Genomics account.

Data will be available the next business day after sample drop-off at a DropBox.

**” Please note:** If samples are sent by post, data will be delivered next business day after sample receipt at Eurofins Genomics.

## Additional Service & Information

» If you need primer barcodes for your enclosed primers, get our Tube Labels [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.

