

TubeSeq Supreme

Sample Submission Guide for the TubeSeq Supreme Sequencing Service

DNA & PRIMER CONCENTRATION & VOLUME

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

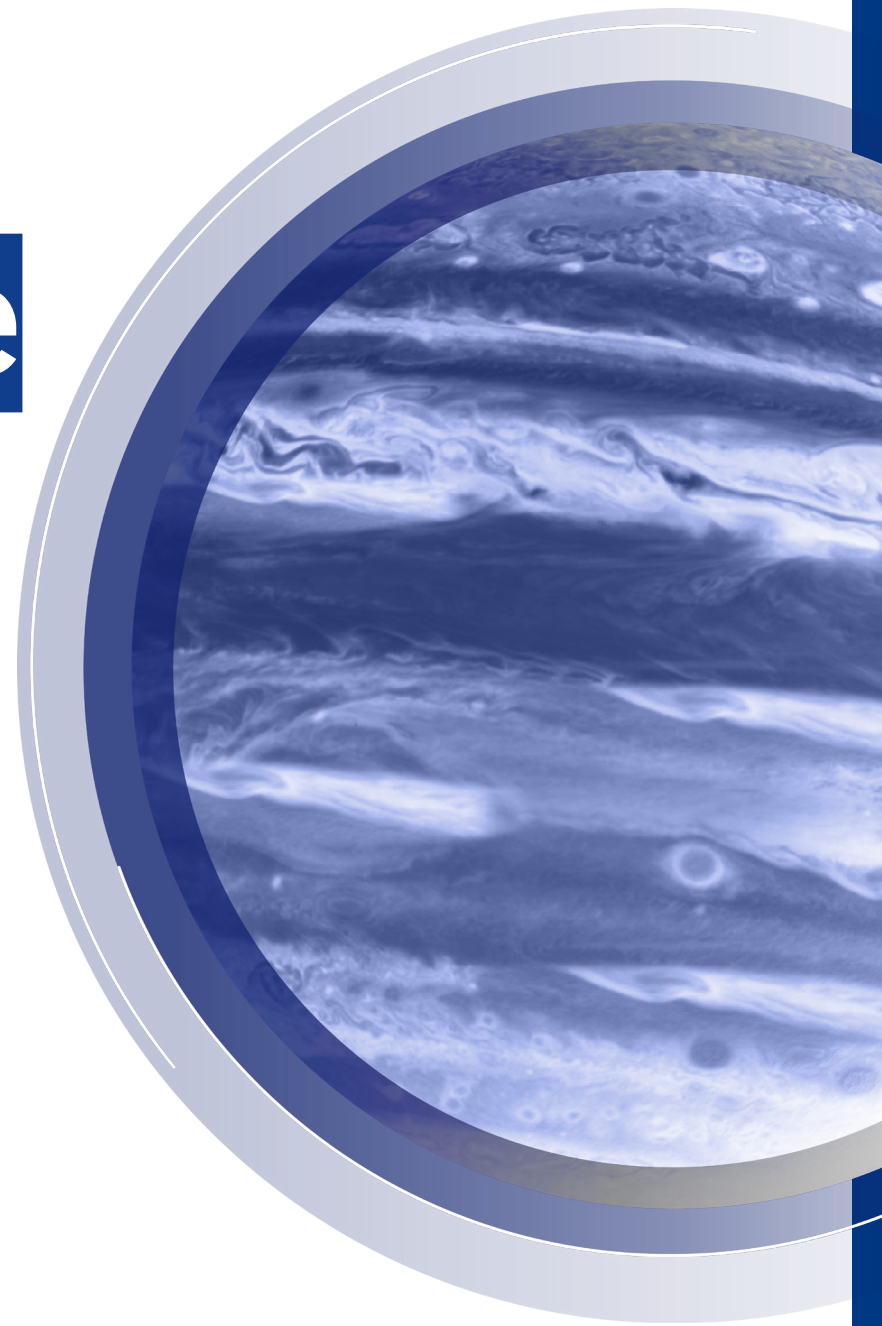
OPTIMUM PRIMER CONDITIONS

- 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

PREMIXED SAMPLES (A MIXTURE OF TEMPLATE AND PRIMER):

- Templates should consist of 15 μl purified DNA with either of the concentrations given in the table on the left side
- Add 2 μl of primer with a concentration of 10 pmol/μl (10 μM)
- Ensure that the total volume of your premixed sample is 17 μl

*Primer must have a volume of 20 μl (double distilled water or 5 mM Tris-HCl); 2 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.

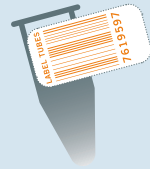


1. DEFINE REACTIONS

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

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

2.



2. LABEL TUBES

Affix a barcode label on your sample tube.

Use our Primer Barcodes for enclosed primers.

Please don't use parafilm to seal your tubes!

3.



3. SUBMIT SAMPLES

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

Alternatively use our courier shipping kits to send your samples to us.

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 until 6pm CET 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, order them [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. Test them with a 25,- Euro voucher (or equivalent national currency). Simply use the promotion code “OLIGOPLANET” during check-out.

Where to send samples

BY DROPBOX

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

BY POST:

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