Shipping Options.

Use our **eco-friendly paper boxes** for secure shipping of your sample plates.

Drop it in your nearest **DropBox** for **free pick-up**.

Alternatively use our **Sample Bag (padded envelope)**, which you may have ordered online already.

If you have a postal service in your institute or company, **address stickers** with our sequencing lab adresses are available online, free of charge.

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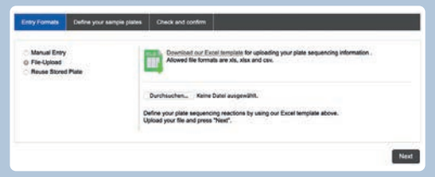
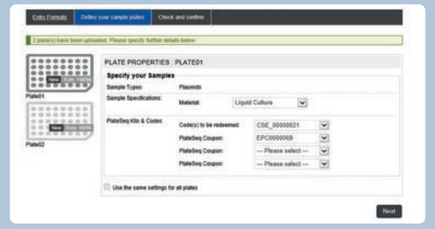
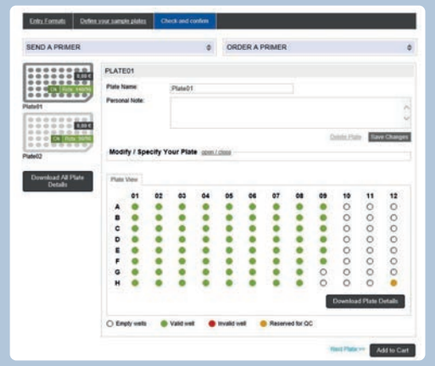
Online Ordering.



Go to the **PlateSeq Service** order page on **eurofinsgenomics.eu** and select the entry format.



Specify your samples and reaction conditions on the second step. Based on the sample type, the respective PlateSeq Kit and PlateSeq Coupon codes can be selected per plate.



On the last step you have the possibility to modify and finally check your plates.
Confirm your sample plates by adding them to your cart.

Sequencing Primers.

OPTIMUM PRIMER CONDITIONS

- The optimum primer length is between 16-25 bases.
- Primer melting temperature (Tm) 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.

Use our free **Sequencing Primer Design Tool** to design the optimum sequencing primers.

PRIMER CONCENTRATION & VOLUME

- Exactly **10 pmol/µl** primer concentration is required per sequencing reaction.
- Each primer must have a **total volume of 15 µl** (double distilled water or 5 mM Tris-HCl).
- **5 µl of primer volume** is required for every additional sequencing reaction.
- Concentration of **primers with wobble bases** must be calculated according to the following formula:
  $n^X \times Conc_{Primer}$

n = number of bases within a wobble according to IUPC code;
X = number of wobbles within the primer sequence.
E.g. 1 V (AGC) = 31 x 10 pmol/µl; 2 V (AGC) (AGC) = 32 x 10 pmol/µl

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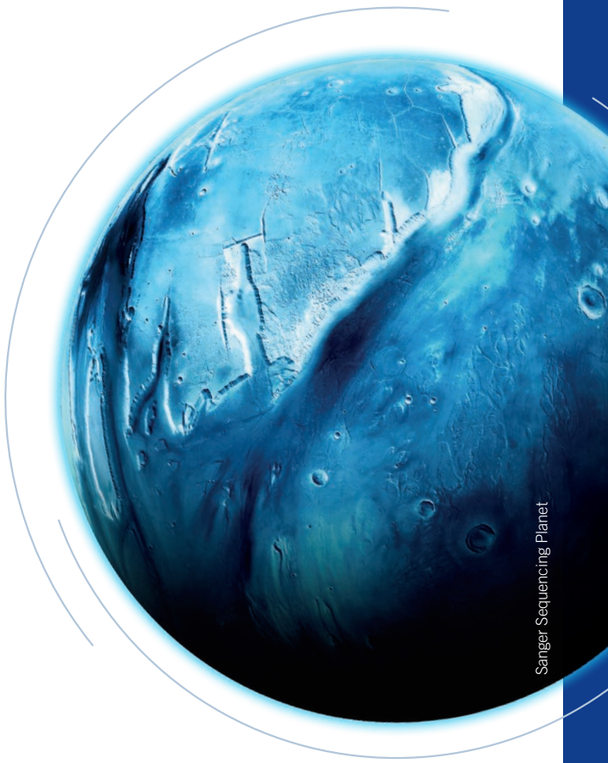

PlateSeq Service

SAMPLE SUBMISSION & ORDERING GUIDE.

Premixed samples


PlateSeq Kit Mix


PlateSeq Kit Mix – ON

- Use our purple **PlateSeq Kit Mix** or black **PlateSeq Kit Mix – Overnight** for your premixed samples.
- Alternatively you can use the PCR Plate from our sequencing accessories.
- Templates should consist of **15 µl purified DNA** with either of the concentrations given in below table.
- DNA concentration must be **normalised** across the plate.
- **Add 2 µl of primer** with a **concentration of 10 pmol/µl.**
- The **total volume** of your premixed sample **must be 17 µl.**
- Well H12 should be kept free for internal quality control.
- **Seal your plates** using **8-cap strips** to prevent material loss.
- If you are using your own please use our **PlateSeq Labels** to label your plate on the plate frame.
- Submit samples at **ambient temperature** to our lab.

Sample concentration & volume

Sample type	Product length	Sample conc.	Sample vol.
Plasmid DNA	–	50-100 ng/µl	15 µl
Purified PCR Products	150-300 bp	1 ng/µl	15 µl
	300-1000 bp	5 ng/µl	15 µl
	1000-3000 bp	10 ng/µl	15 µl

Quantify your template concentration via agarose gel or a photometer to ensure accurate results.

Purified DNA samples


PlateSeq Kit DNA


PCR Plate

- Use either our blue **PlateSeq Kit DNA** or the PCR Plate from our sequencing accessories.
- Plates may contain plasmid DNA and purified PCR products.
- Sample concentration must be **normalised** across the plate.
- **Quantify the DNA concentration** via agarose gel or a photometer.
- Well H12 should be kept free for internal quality control.
- **Seal your plates** using **8-cap strips** to prevent material loss.
- If you are using your own plates, please use our **PlateSeq Labels** to label your plate on the plate frame.
- Samples should be sent at **ambient temperature**.

Sample concentration & volume

Sample type	Product length	Sample conc.	Sample vol.
Plasmid DNA	–	50-100 ng/µl	15 µl
Purified PCR Products	150-300 bp	1 ng/µl	15 µl
	300-1000 bp	5 ng/µl	15 µl
	1000-3000 bp	10 ng/µl	15 µl

Unpurified PCR products


PlateSeq Kit PCR


PCR Plate

- Use either our green **PlateSeq Kit PCR** or the PCR Plate from our sequencing accessories.
- Concentration must be **normalised** across the plate.
- **Quantify the concentration** via agarose gel or a photometer.
- PCR **product size should not vary** by more than a factor of 3.
- Well H12 should be kept free for internal quality control.
- PCR products should be **sent liquid** in a total volume of 15 µl.
- **Seal your plates** using **8-cap strips** to prevent material loss.
- If you are using your own plates, please use our **PlateSeq Labels** to label your plate on the plate frame.
- Ship samples at ambient temperature to us.

Sample concentration & volume

Sample type	Product length	Sample conc.	Sample vol.
Unpurified PCR Products	150-300 bp	4 ng/µl	15 µl
	300-1000 bp	10 ng/µl	15 µl
	1000-3000 bp	20 ng/µl	15 µl

Plasmid clones as stab culture


PlateSeq Kit Clone


Agar Plate

- Use either our **PlateSeq Kit Clone** or Agar Plate from our sequencing accessories with appropriate antibiotic.
- Use sterile toothpicks to **pick single colonies** from your petri dish and inoculate a single well with one colony.
- Cover the plate with a lid and loosely wrap with cellophane.
- Incubate plate at **37 °C for 8-12 hours** (overnight).
- If you are using your own plates, please use our **PlateSeq Labels** to label your plate on the plate frame.
- Seal the plate with an **adhesive plastic foil**.
- Ship your stab cultures at **ambient temperature** to us.

PLASMID CLONES AS GLYCEROL CULTURE

- Use transparent 96well plates with 350 µl/well.
- Fill each well with **200 µl of liquid medium**.
- Include the appropriate antibiotic and add **40 µl glycerol** (final glycerol concentration: 10-20 %).
- Use sterile toothpicks to pick single colonies from your petri dish and inoculate a single well with one colony.
- Alternatively transfer already arrayed clones from a storage glycerol plate to a freshly prepared 96well plate.
- Cover the plate loosely and **incubate at 37 °C overnight**.
- Verify that the **plate surface is dry** before you seal the plate tightly with an adhesive plastic foil.
- Use our **PlateSeq Labels** to label your plate.
- **Freeze the plate at -80 °C.**
- Ship your glycerol cultures on **sufficient dry ice** to us.