

# Eco-Seq User Guide



The name Eco-Seq stands for both Economy and Ecology. Eco-Seq is a new service designed for the scientists who want to enjoy both the easiness and flexibility in the DNA sequencing process. If you have ever tried Macrogen's sequencing services Standard-seq and EZ-seq, you already understand the Eco-Seq system, because it incorporates all the advantages of both services while getting rid of inconveniences, so that you can spend your precious time on research or relaxation, not on complexity of making orders.

## 1. Registration

To order ECO-seq labels, you will need an online Macrogen user account. The labels will be automatically linked to your account via our LIMS. Please click [here](#) for registration.

(Please use a company/institute e-mail address to automatically receive price reductions.)

**Note:** To show you our high quality sequencing results. You will receive a coupon for 5 free standard sequencing reactions once you create a new account.

## 2. Labels

Labels are available for Tubes and Plate. You can choose the type of label that you want to use.

You will receive two different types of labels. These two labels should be attached to each tube; The larger bottom part of the label is attached to on the side wall of tube (just like EZ-seq labels), and the other round label on top of the tube.

If you have specified the name of primers that you want to use when you made the order for labels, the names of primer shall be already printed on them.

Otherwise you will receive blank labels, then please write down the name of the primer. If you want to use your own custom primer, please also write the primer name onto the label which you attach to the top of the primer tube. Please click [here](#) to order the labels.

## 3. Sample Preparation

This new label does not require premixing of the template DNA with the primer. So all you need to put in the tube is 5  $\mu$ L of 50 ng/ $\mu$ L purified DNA. If you are going to use any of our universal primers, all you need to prepare is just this sample with the name of the sequencing primer to be used indicated on top of the tube (we send you a separate label for this)

If you want to use your customized primer which is not in the list of our universal primers (you can find the list on the other side of this paper), you should send the primer in a separate tube along with the DNA samples. Per reaction a minimum volume of 2  $\mu$ L of 5 pmole/ $\mu$ L (5  $\mu$ M) primer should be added, but we recommend to add about 20% more.

## 4. Sample Requirements

Sample Type	Concentration	Minimum Volume
Plasmid	100 ng/ $\mu$ L	10 $\mu$ L
Purified PCR Products	- Over 700 bp: higher than 50 ng/ $\mu$ L - 300 bp~700 bp: 25-50 ng/ $\mu$ L - Less than 300 bp: 10-15 ng/ $\mu$ L	5-10 $\mu$ L
Unpurified PCR Products	- Over 700bp: higher than 70 ng/ $\mu$ L - 300 bp~700 bp: 50 ng/ $\mu$ L - Less than 300 bp: 20-25 ng/ $\mu$ L	20 $\mu$ L

## 5. Sample Submission

Please send your samples to our lab in Amsterdam by dropping your samples in our pick-up mailbox at the VU O2 building (located in the small office near the small main reception desk). Pick-up time: every business day at 15:30, starting from March 1<sup>st</sup> 2019. Please put your samples in a bag or envelope to ensure non are lost during transport.