

Eco-Seq is designed to use prepaid labels, but without the need to pre-mix template and primer. Once placing an order via our online website, labels are delivered to you by courier service. Eco-seq is the most flexible and easiest barcode service for scientists who could make a short-cut workflow in preparation of samples. After receiving the labels, simply attach them on the tubes/plates, add template in the tube/wells and send to our lab for sequencing along with primer - template and primer pre-mixing will be done in our lab.

## 1. Order the labels

- Go to [dna.macrogen.com/eng](http://dna.macrogen.com/eng)
- Choose Eco-seq under Order menu with either tube or plate
- Put the number of labels (Min. Eco-Seq tube labels: 50 labels, Eco-Seq plate labels: 2 labels), and press Submit button.

## 2. Sample preparation

The following requirements are highly recommended to get a good result.

Sample Type	Product Size	Sample Conc.(ng/ul)	Sample Vol.(ul)
Purified PCR	>700bp	>50ng/μl	5-10μl
	300bp,~700bp	25-50ng/μl	5-10μl
	<300bp	10-15ng/μl	5-10μl
Unpurified PCR	>700bp	>70ng/μl	>20μl
	300bp,~700bp	50ng/μl	>20μl
	>700bp	20-25ng/μl	>20μl
Plasmid DNA	-	At least 100ng/ μl	5-10μl

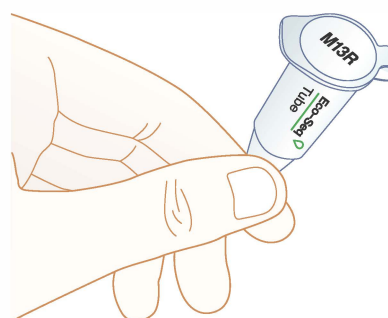
## 3. Primer preparation

- Primer concentration : 5-10 pmole/ μl (=60ng/ μl ) in deionized water
- Primer volume : greater than 20 μl (Enough for 4-5 reactions)

## 4. Single tube label

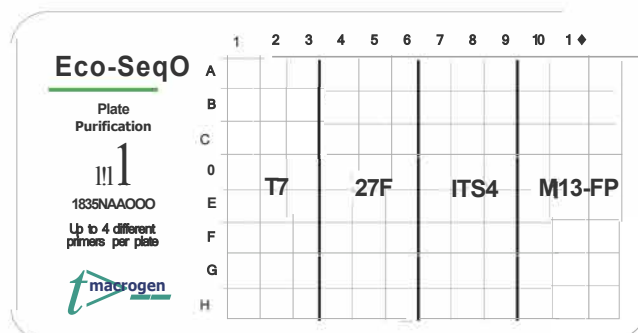
- Barcode labels for DNA samples and round shaped labels for primers to be provided.
  - Attached the barcode label on the body of the 1.5ml tube containing DNA sample
  - Write down the abbreviated primer name on the round shaped labels (refer to primer name on the back side), and put it on top of the tubes containing the **DNA** sample.
- Barcode labels with small parts for your own records and large part for being attached on the tube.

- ✓ Free universal primers are provided.
- ✓ Customized primers should be sent in separated tubes as guided above.



## 5. 96-well plate label

- The following grid of barcode labels to be delivered. Up to 4 different primers can be applied per plate.
  - Indicate regions of primers who correspond to samples in each of well in grid of barcode vertically or horizontally.
  - Write down the abbreviated primer name in each region.



✓ Strip trip caps and bubble wraps are highly recommended to avoid leakage in transit

## 6. Shipping information

Once you have purchased Eco or EZ labels, instead of placing individual orders on the MacroGen website, simply contact Syntezza each time you have samples ready for pick-up. Call us at 02-586-7138 ext. 3 (Nitzan) or send us notice by email to [sequencing@syntezza.com](mailto:sequencing@syntezza.com).

Primer name	Abbreviated name	Sequence (5'-3')	Primer name	Abbreviated name	Sequence (5'-3')
1492R	<b>1492R</b>	TACGGYTACCTTGTACACTT	MBR-pUC (-40)	<b>M13UR</b>	CAGGAAACAGCTATGAC
27F	<b>27F</b>	AGAGTTTGATCMTGGCTCAG	MT Forward	<b>MTF</b>	CATCTCAGTCAACTAAA
35S-A	<b>35SA</b>	AAGGGCTTGCGAAGGATAG	pBacPAC-RP	<b>PACR</b>	GTCTGTAATCAACAACGC
35S-B	<b>35SB</b>	AGTGGAAGGAAGGTGGCT	M13R	<b>M13R</b>	GCGGATAACAATTCACACAGG
518F	<b>518F</b>	CCAGCAGCCGCGTAATACG	pBAD-FP	<b>BADF</b>	ATGCCATAGCATTTTTATCC
SOOR	<b>SOOR</b>	TACCAGGTATCTAATCC	pBAD-R	<b>BADR</b>	GATTTAATCTGTATCAGG
AD Reverse	<b>ADR</b>	AGATGGTGCACGATGCACAG	pDONOR-FP	<b>DONF</b>	TAACGCTAGCATGGATCTC
a-Factor	<b>AFAC</b>	TACTATTGCCAGCATTGTCTC	pEGFP_N	<b>GFPN</b>	CCGTCCAGCTCGACCAG
AOX1 Forward	<b>AOXF</b>	GACTGGTCCA TTGACAAGC	pEGFP-FP	<b>GFPF</b>	TTTAGTGAACCGTCAGATC
AOX1 Reverse	<b>AOXR</b>	GCAAATGGCATTCTGACATCC	pEGFP-RP	<b>GFPR</b>	AACAGCTCCTCGCCCTTG
BGH-R	<b>BGHR</b>	TAGAAGGCACAGTCGAGG	pESP-RP	<b>ESPR</b>	TCCAAAAGAAGTCGAGTGG
Bluescript KS	<b>BKS</b>	TCGAGGTCGACGGTATC	pET-24a	<b>ET24</b>	GGTTATGCTAGTTATTGCTCAG
Bluescript SK	<b>BSK</b>	CGCTCTAGAAGTAGTGGATC	pET-RP	<b>ETR</b>	CTAGTTA TTGCTCAGCGG
CMV-F	<b>CMVF</b>	CGCAAATGGGCGGTAGGCGTG	pFastBac Forward	<b>BACF</b>	GGATTATTCATACCGTCCCA
CYC1 Reverse	<b>CYCR</b>	GCGTGAATGTAAGCGTGAC	pFastBac Reverse	<b>BACR</b>	CAAATGTGGTATGGCTGATT
DsRed1-C	<b>RED1C</b>	AGCTGGACATCACCTCCCACAACG	pGEX3	<b>GEX3</b>	GGAGCTGCATGTGTACAGAGG
DsRed1-N	<b>RED1N</b>	GTACTGGAATGGGGGACAG	pGEX5	<b>GEX5</b>	GGCAAGCCACGTTTGGTG
EBV-RP	<b>EBVR</b>	GTGGTTTGTCCTCAACTCATC	pJET1.2F	<b>JET1F</b>	CGACTCACTATAGGGAGAGCGGC
EGFP-C	<b>GFPC</b>	CATGGTCCTGCTGGAGTTCGTG	pJET1.2R	<b>JET1R</b>	AAGAACATCGA TTTTCCATGGCAG
EGFP-CF	<b>EGCF</b>	AGCACCCAGTCCGCCCTGAGC	pMalE	<b>MAL</b>	TCAGACTGTGCATGAAGC
EGFP-CR	<b>EGCR</b>	CGTCCATGCCGAGAGTG	pQE-F	<b>QEF</b>	CCCGAAAAGTGCCACCTG
EGFP-N	<b>GFPN</b>	CGTCGCCGTCAGCTCGACCAG	pQE-R	<b>QER</b>	GTTCTGAGGTCATTACTGG
EGFP-NR	<b>GFNR</b>	CGTCGCCGTCAGCTC	pREP-fwd	<b>REPF</b>	GCTCGATAACAATAAACGCC
GAL1 Forward	<b>GALF</b>	AATATACCTCTATACTTTAACGTC	pRH Forward	<b>RHF</b>	CTGTCTCTATACTCCCCTATAG
Gal4AD	<b>GA4A</b>	TACCACTACAATGGATG	pRH Reverse	<b>RHR</b>	CAAAATTCATAGTTACTATCGC
Glprimer1	<b>GLP1</b>	TGTATCTTATGGTACTGTAAGT	pTrcHis Forward	<b>PTHF</b>	GAGGTATATATTAATGTATCG
Glprimer2	<b>GLP2</b>	CTTTATGTTTTGGCGTCTTCCA	QE Promoter	<b>QEP</b>	CCGAAAAGTGCCACCTG
HC02198	<b>HC02</b>	TAAACTTCAGGGTGACCAAAAAATCA	RVprimer3	<b>RVP3</b>	CTAGCAAAATAGGCTGTCCC
ITS1	<b>ITS1</b>	TCCGTAGGTGAACCTGCGG	RVprimer4	<b>RVP4</b>	GACGATAGTCATGCCCGCG
ITS2	<b>ITS2</b>	GCTGCGTTCTTCATCGATGC	SP6	<b>SP6</b>	ATTTAGGTGACACTATAG
ITS3	<b>ITS3</b>	GCATCGATGAAGAACGCAGC	Slag 18mer Primer	<b>ST18</b>	GAACCCAGCACATGGAC
ITS4	<b>ITS4</b>	TCCTCCGCTTATTGATATGC	SV40-pArev	<b>SV4A</b>	CCTCTACAAATGGGTATGG
ITS5	<b>ITS5</b>	GGAAGTAAAAGTCGTAACAAGG	SV40-Promoter	<b>SV4F</b>	GCCCTAACTCCGCCATCC
KAN2-FP	<b>KAN2F</b>	ACCTACAACAAGCTCTCATCAACC	T3	<b>T3</b>	ATTAACCTCACTAAAAG
KAN2-RP	<b>KAN2R</b>	GCAATGTAACATCAGAGA TTTTGAG	T7	<b>T7</b>	AATACGACTCACTATAG
LC01490	<b>LCOI</b>	GGTCAACAAATCATAAAGATATTGG	T7 EEV	<b>T7EV</b>	ATGTCGTAATAACCCGCCCG
M13F	<b>M13F</b>	GTAAAACGACGGCCAGT	T7promoter	<b>T7P</b>	TAATACGACTCACTATAGGG
M13-FP	<b>M13FP</b>	TGTAAAACGACGGCCAGT	T7terminator	<b>T7T</b>	GCTAGTTATTGCTCAGCGG
MBF-pUC (-40)	<b>M13UF</b>	GTTTTCCAGTCACGAC	U-19mer Primer	<b>U19</b>	GTTTTCCAGTCACGACGT

Technical Questions? Feel free to contact us

Tel: 02-586-7138 ext. 4 or 5

[sequencing@syntezza.com](mailto:sequencing@syntezza.com)

