

Requirements for full-service DNA sequence samples and primers stocked at KIGene

Required information:

- template and primer concentrations
- template type (plasmid DNA or PCR fragments)
- template size
- T_A or primer sequence

Template DNA and primer needed per reaction:

Purified PCR fragments:	2-50 ng depending on length (~2 ng/100 bp) in a volume of 7 µl or less
Plasmid DNA:	150 ng-300 ng depending on size (~150 ng/5 kb) in a volume of 7 µl or less
Primer:	5 pmol/reaction in a volume of 2 µl or less

Sequencing of large clones (BAC, cosmid and lambda; per reaction)

Plasmid DNA:	1.0 µg
Primer :	30 pmol.

The total volume of plasmid and primer cannot exceed 12 µl.

Sample submission

- Samples received before 10:00 AM are sequenced the same day.
- Only label the tubes with initials and in numerical orders. It is enough that the correct sample names are listed in the order form.
- Partly filled plates must be filled column wise (A01-H01, A02-H02..)
- When sending samples by post, use padded envelopes and wrap Parafilm[®] over the lids. Preferably use strip locks for 96-well plates.

We stock the following unlabelled primers:

BGH-R	5'-TAG AAG GCA CAG TCG AGG-3'
CMV-F	5'-CGC AAA TGG GCG GTA GGC GTG-3'
EF-1a Forward	5'-TCA AGC CTC AGA CAG TGG TTC-3'
EGFP-C	5'-CAT GGT CCT GCT GGA GTT CGT G-3'
EGFP-N	5'-CGT CGC CGT CCA GCT CGA CCA G-3'
Gal4-AD	5'- AAT ACC ACT ACA ATG GAT-3'
Gal4 N-term	5'- GAG TAG TAA CAA AGG TCA A-3'
GFP-F	5'- GGT CCT TCT TGA GTT TGT AAC-3'
GFP-R	5'- CCA TCT AAT TCA ACA AGA ATT GGG ACA AC-3'
IRES-F	5'- TGG CTC TCC TCA AGC GTA TT-3'
IRES-R	5'- CCT CAC ATT GCC AAA AGA CG-3'
LKO.1 5'	5'- GAC TAT CAT ATG CTT ACC GT-3'
M13 F (-20)	5'-GTA AAA CGA CGG CCA GTG-3'
M13-F (-40)	5'-GTT TTC CCA GTC ACG AC-3'
M13 R (-27)	5'-CAG GAA ACA GCT ATG AC-3'
M13 R (-48)	5'-AGC GGA TAA CAA TTT CAC AC-3'
PGEX-3'	5'-CCG GGA GCT GCA TGT GTC AGA GG-3'
PGEX-5'	5'-GGG CTG GCA AGC CAC GTT TGG TG-3'
PolyA-B	5'-AAA AAA AAA AAA AAA AAA AAA AAA B-3'
PolyT-V	5'-TTT TTT TTT TTT TTT TTT TTT TTV-3'
RVprimer3	5'- CTA GCA AAA TAG GCT GTC CC-3'
Sp6	5'-ATT TAG GTG ACA CTA TAG-3'
SV40pA-R	5'-GAA ATT TGT GAT GCT ATT GC-3'
SV40pro-F	5'-TAT TTA TGC AGA GGC CGA GG-3'
T3 Promoter	5'-ATT AAC CCT CAC TAA AGG-3'
T7-EEV	5'-ATG TCG TAA TAA CCC CGC CCC G-3'
T7 Promoter	5'-AAT ACG ACT CAC TAT AGG-3'
T7 Reverse	5'-TAG TTA TTG CTC AGC GGT G-3'
T7 Terminator	5'-GCT AGT TAT TGC TCA GCG G-3'
U6 Primer	5'- GGG CAG GAA GAG GGC CTA T-3'

The nucleotide sequence of universal primers might differ despite the use of the same name. Please ALWAYS check for compatibility against your plasmid sequence before requesting a specific primer.