



Molecular Biology Services Unit

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NEW SANGER SEQUENCING SERVICE

- Users provide template and primer mixed together in one tube to a final volume of 10 uL.
- We perform cycle sequencing reaction and run on 3730 Genetic Analyzer.
- Sequencing data files_ .ab1 and .txt _will be e-mailed by the next working day.
- To determine the *exact* template and primer concentrations for your sample type please refer to the chart below.

| TEMPLATE | | | | PRIMER | |
|-------------|-------------|--------|------------|------------|-----------|
| Type | Size | Mass | Final [] | Amount | Final [] |
| Plasmid | 3 kb- 10kb | 575 ng | 57.5 ng/uL | 2.5 pmoles | 0.25 uM |
| PCR product | 100-150 bp | 75 ng | 7.5 ng/uL | 2.5 pmoles | 0.25 uM |
| | 150-500 bp | 150 ng | 15.0 ng/uL | 2.5 pmoles | 0.25 uM |
| | 500-1500 bp | 225 ng | 22.5 ng/uL | 2.5 pmoles | 0.25 uM |
| Cosmid | 30 - 70 kb | 1 ug | 100 ng/uL | 15 pmoles | 1.5 uM |