

The McDermott Center Sequencing Core

The McDermott Center Sequencing core facility provides DNA sequencing for UTSW investigators. We are located in NA2.138 (north campus) and maintain a south campus drop location in L5.128. Samples are amplified using Applied Biosystems Big Dye Terminator v3.1 chemistry, run on Applied Biosystems 3730xl instruments, and purified using Sephadex G-50 in Millipore Multiscreen plates. The cost is \$8.00 per sample and results are normally returned within one business day via email.

Requirements for DNA Sequencing:

- Orders should be submitted online at <http://hapless.swmed.edu/seqcore>.
- PCR products need to be homogeneous with primers and d-NTPs removed.
- Please note the following table for template and primer concentration requirements:

Plasmid	Vol	PCR	Vol	Primer (.5µM final)	Vol
200-300 ng/µl	6 µl	100-500 bp	2 ng/µl	1 pmol/µl	6µl
		500-1000 bp	4-8 ng/µl		
		1000-2000 bp	4-10 ng/µl		

DNA concentrations are best estimated by comparison with the bands of a DNA ladder on an agarose gel. A260-A280 absorbance measurements tend to overestimate DNA concentrations

- **Premix your template and primer for a total volume of 12 µl.** If you wish us to add one of the standard primers (see below) fill out the online sample submission form accordingly and provide us with 6 µl of template.

T3	5'-ATT AAC CCT CAC TAA AG- 3'
T7	5'-TAA TAC GAC TCA CTA TAG GG- 3'
M13-21	5'-TGT AAA ACG ACG GCC AGT- 3'
M13-Rev	5'-CAG GAA ACA GCT ATG ACC- 3'
SP6	5'-ATT TAG GTG ACA CTA TAG- 3'
(16)NN	16T's plus all combinations for the next two nucleotides. 16 separate primer stocks

- Dilute purified template and primer in dH₂O.

Contact Information:

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