

# Protocol Library

## Protocol

Welcome to the Rauscher Lab protocol library. Entries which are Wiki pages appear as links; entries which are downloadable files appear with green arrows after their names.

### Anthocyanin

- Anthocyanin Extraction
- Thin layer chromatography.doc

### Cloning

- *Agrobacterium* Transformation
- A-tailing of PCR products
- Bacterial Transformation
- BL21 STAR DE3 CELLS.pdf
- classic\_subcloning.pdf
- Colony PCR
- Competent *Agrobacterium* Cells
- Competent *E. coli* Cells
- First Strand cDNA synthesis
- pGEM Ligations
- T4-DNA ligase - invitrogen.pdf

### DNA Extraction

- CTAB genomic DNA extraction
- Genomic DNA Extraction

### Enzyme Assays

- DFR Assay
- DFR Assay.doc
- Bacterial Protein Overexpression
- Carrie's updated DFR assay protocol.pdf
- How to order DHK for enzyme assays
- Customs letter for DHK.doc

### Plant Transformations

- *Arabidopsis* floral dip transformation
- Particle Bombardment
- Seed Sterilization and Plating

### Plasmid Maps

- Plasmids
- pDONR221.pdf
- pHGWF57.jpeg
- Vector D1.pdf
- pCAMBIA1300.pdf
- pH7GWIWG2(I).jpeg
- Puc19.pdf
- Vector D18.pdf

### Quantitative PCR

- DART\_Version\_1.0\_for\_NAR.xls
- QPCR analysis template.xls

### General Stuff

- Sequencing Reaction
- DNA cleaning following extraction
- dNTPs solution
- Making\_Solutions.pdf
- Scintillation counter instructions