

***D. japonica* cDNA Library of Head**

Forward Sequencing

ABI 3700 and 3730xl DNA
Sequencers

Reverse Sequencing

ABI 3700 and 3730xl DNA
Sequencers

5' Raw Sanger Data

3' Raw Sanger Data

Base Calling

Phred and Sequencing
Analysis Software

Raw Sanger Sequences

DDBJ Entries

Quality Control, Vector Mask

LUCY Software

Valid Sanger Sequences

Primer Walking

Using Custom Primers

Pre-Assembling

CAP3

**Full Insert Sequences
of cDNA Clone**

**Contigs of Paired-end
Sequences**

Base Sequences for *de novo* Assembling

Clustering and Assembling

TGICL Software

Unigenes: Contig and Singleton Sequences

Homology Search

BLASTX with RefSeq
Protein

**Homologous
Distribution**

Conserved Domain Search

RPS-BLAST with Pfam

**Database of
Conserved Domain**

GO Mapping

UniprotKB and
Blast2Go

GO Annotations