

Yeast ORFan Gene Project: Module 1 Worksheet

BASIC INFORMATION

Assigned Gene **Systematic Name**: _____

SGD Description of Known Information about your Protein

DNA Coordinates:

Chromosome #:

Gene Size Calculation:

DNA Sequence:

Protein length (aa):

Does this length make sense with your calculated DNA sequence length? Why or Why not?

Molecular Weight (Da):

Isoelectric Point (pI):

Protein Sequence:
SEQUENCE-BASED
SIMILARITY

For the **TOP**-scoring match in **NR Record**:

Gene Name:

Organism:

Alignment Length:

Score:

E-value:

Copy and past the alignment of the query and top-scoring BLAST hit:

Comment on the E-value and compare the lengths of the query and subjects (matching) sequences:

For the **TOP**-scoring match in **UniProtKB/Swiss-Prot Record**:

Gene Name:

Organism:

Alignment Length:

Score:

E-value:

Copy and past the alignment of the query and top-scoring BLAST hit:

Comment on the E-value and compare the lengths of the query and subjects (matching) sequences:

As needed, copy the above headers and insert a duplicate copy to include additional data, for instance if you get 2 relevant hits in your NR BLAST search, copy those header lines, rename to 2nd hit, and fill in the relevant data.