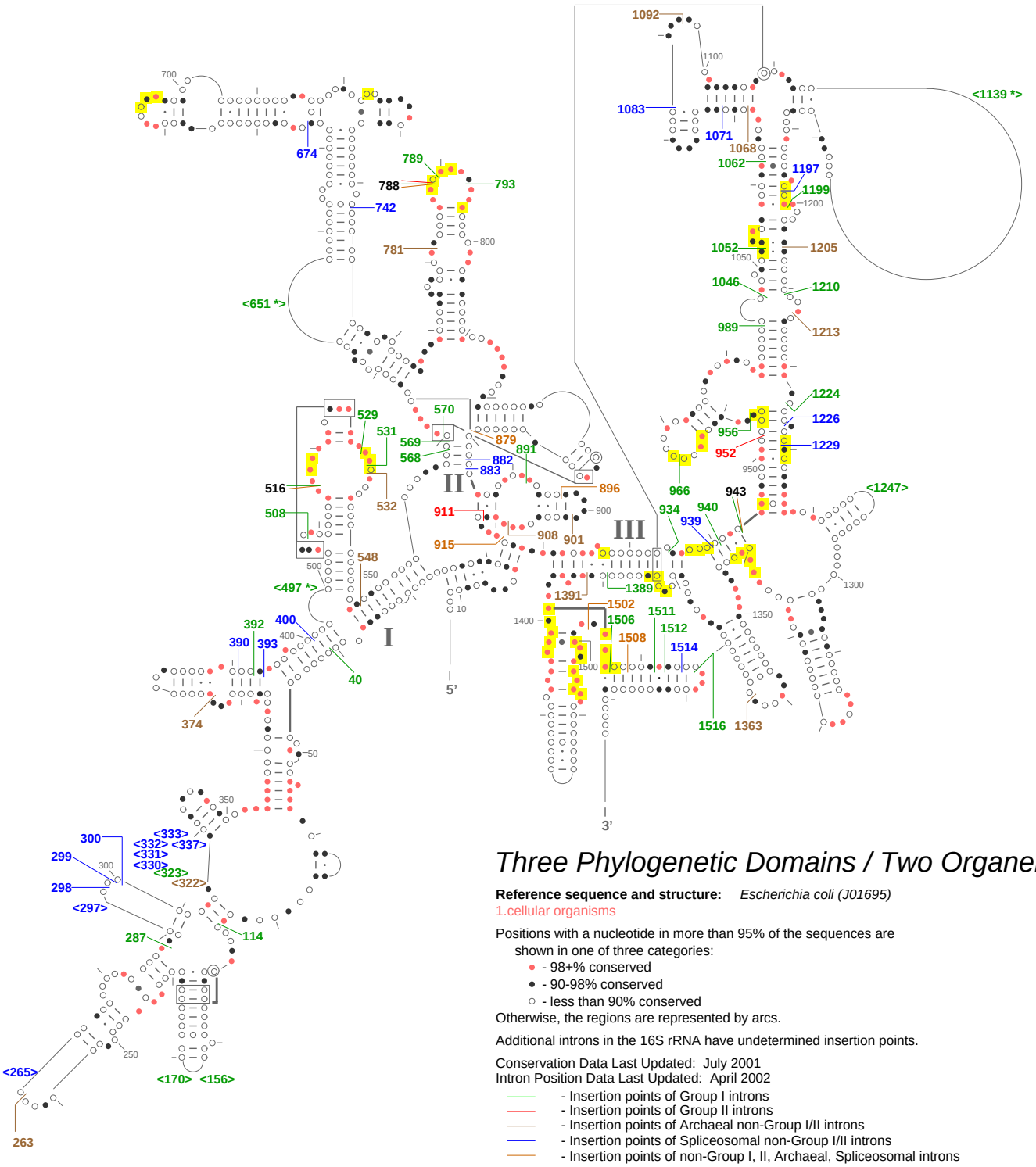
rRNA Introns: Intron Positions in 16S rRNA
Shown on the Three Phylogenetic Domains / Two Organelles
Conservation Diagram (Data from 14 February 2002)



Three Phylogenetic Domains / Two Organelles

Reference sequence and structure: *Escherichia coli (J01695)*
1.cellular organisms

Positions with a nucleotide in more than 95% of the sequences are shown in one of three categories:

- ● - 98+% conserved
- ● - 90-98% conserved
- ○ - less than 90% conserved

Otherwise, the regions are represented by arcs.

Additional introns in the 16S rRNA have undetermined insertion points.

Conservation Data Last Updated: July 2001
Intron Position Data Last Updated: April 2002

- - Insertion points of Group I introns
- - Insertion points of Group II introns
- - Insertion points of Archaeal non-Group I/II introns
- - Insertion points of Spliceosomal non-Group I/II introns
- - Insertion points of non-Group I, II, Archaeal, Spliceosomal introns

Yellow highlights show proximity (within 10.0 Angstroms) to the A, P, and E sites and to mRNA (based upon PDB entry 1JGQ):

Position numbers listed in <> are not conserved in the Three Phylogenetic Domains/Two Organelles sequence alignment.

Position numbers marked with * are approximations, unlike the others. The structures of the organisms containing these introns are not identical to the reference sequence. These numbers indicate the reference sequence position before the insertion.

Citation and related information available at http://www.rna.icmb.utexas.edu