



### Class I: Completely conserved gene order

Phylogenetic Group (see Figure S1A)

<i>Neorickettsia</i> spp.		1 "BOOM"
Wolbachiae		1 "BOOM"
<i>Peranema trichophorum</i> endosym.		1 "BOOM"
<i>Rickettsia buchneri</i>		1 "BOOM"

### Class IIA: Partially conserved gene order (rogue BioA)

<i>Trichoplax</i> sp. H2 endosymbiont		GROUP 3
" <i>Cand. Aquarickettsia rohweri</i> "		GROUP 3
" <i>Cand. Midichloria mitochondrii</i> "		1 "BOOM"
<i>Stachyamoeba lipophora</i> endosym.		GROUP 3

### Class IIB: Partially conserved gene order (rogue BioB)

" <i>Cand. Fokinia solitaria</i> "		1 "BOOM"
" <i>Cand. Occidentia massiliensis</i> "		1 "BOOM"

### Class III: No conservation of gene order

" <i>Cand. Deianiraea vastatrix</i> "		1 "BOOM"
<i>Anaplasma marginale</i>		GROUP 2
<i>A. phagocytophilum</i>		
<i>A. centrale</i>		
<i>Ehrlichia canis</i>		GROUP 2
<i>E. ruminatum</i>		
<i>E. chaffeensis</i>		
<i>Rickettsiales bacterium</i> str. Ac37b		GROUP 2

"*Cand. Deiania*aceae"      Midichloriaceae  
 Anaplasmataceae      Rickettsiaceae

Fig. S3