

## Dendrogram of cgMLST analysis (based on 516 loci)

Bacteroides ovatus BSD2780061688st1\_C6 (GCA\_005845145.1)  
Bacteroides ovatus BSD2780061688st1\_A7 (GCA\_005844865.1)  
Bacteroides ovatus BSD2780061688b\_171218\_C3 (GCA\_015555775.1)  
Bacteroides ovatus H10\_hBSD2780061687b\_210117 (GCA\_028400045.1)  
Bacteroides ovatus A9\_hBSD2780061687b\_210117 (GCA\_028400065.1)  
Bacteroides ovatus A3\_hBSD2780061687b\_210117 (GCA\_028400075.1)  
Bacteroides ovatus C6\_hBSD2780061687b\_210117 (GCA\_028400095.1)  
Bacteroides ovatus G1\_hBSD2780061687b\_210117 (GCA\_028400575.1)  
Bacteroides ovatus C9\_hBSD2780061687b\_210117 (GCA\_028400595.1)  
Bacteroides ovatus D1\_hBSD2780061687b\_210117 (GCA\_028400615.1)  
Bacteroides ovatus B11\_hBSD2780061687b\_210117 (GCA\_028400645.1)  
Bacteroides ovatus A1\_hBSD2780061687b\_210117 (GCA\_028400665.1)  
Bacteroides ovatus BSD2780061688st1\_C6\_BSD2780061688b\_171218 (GCA\_028401255.1)  
**Bacteroides ovatus BSD2780061688st1\_A7\_BSD2780061688b\_171218 (GCA\_028401295.1)**  
Bacteroides ovatus G6\_hBSD2780061687b\_210117 (GCA\_028400545.1)  
Bacteroides ovatus E10\_hBSD2780061687b\_210117 (GCA\_028400565.1)  
Bacteroides ovatus H5\_hBSD2780061687b\_210117 (GCA\_028400505.1)  
Bacteroides ovatus WH713 (GCA\_918279245.1)  
Bacteroides ovatus BJH\_27 (GCA\_021410745.1)  
Bacteroides ovatus D53t1\_180928\_E11 (GCA\_015557585.1)