

## Dendrogram of cgMLST analysis (based on 91 loci)

Parabacteroides goldsteinii 0.1X-D42-15 (GCA\_003670235.1)  
Parabacteroides goldsteinii dnLKV18 (GCA\_000403825.2)  
Parabacteroides goldsteinii 526-21 (GCA\_009911535.1)  
Parabacteroides goldsteinii MD072 (GCA\_010206235.1)  
Parabacteroides goldsteinii MTS01 (GCA\_017873595.1)  
Parabacteroides goldsteinii S9\_Bin1 (GCA\_021768555.1)  
Parabacteroides goldsteinii A19\_11.PG.DSS (GCA\_910574435.1)  
Parabacteroides goldsteinii 7.PG.Ymh (GCA\_910574575.1)  
Parabacteroides goldsteinii Parabacteroides\_goldsteinii\_DSM111136 (GCA\_932751185.1)  
Parabacteroides goldsteinii ERR8099108\_bin.24\_metawrap\_v1.3\_MAG (GCA\_947038275.1)  
Parabacteroides goldsteinii ERR899286\_bin.40\_metawrap\_v1.3\_MAG (GCA\_947061905.1)  
**Parabacteroides goldsteinii SRR19524216\_bin.3\_metawrap\_v1.3\_MAG (GCA\_947256815.1)**  
Parabacteroides goldsteinii SRR14836543\_bin.5\_metawrap\_v1.3\_MAG (GCA\_947364385.1)  
Parabacteroides goldsteinii SRR15431177\_bin.9\_metawrap\_v1.3\_MAG (GCA\_947367975.1)  
Parabacteroides goldsteinii SRR15604522\_bin.3\_metawrap\_v1.3\_MAG (GCA\_947571905.1)  
Parabacteroides goldsteinii SRR13428089\_bin.16\_metawrap\_v1.3\_MAG (GCA\_947653485.1)  
Parabacteroides goldsteinii MGBC166146 (GCA\_948590365.1)  
Parabacteroides goldsteinii MGBC136644 (GCA\_948708715.1)  
Parabacteroides goldsteinii MGBC166359 (GCA\_948742315.1)  
Parabacteroides goldsteinii MGBC136748 (GCA\_948785215.1)

-0.001 0 0.0005 0.0000