Government of India
Ministry of Science & Technology
Department of Biotechnology

BRIC
NIBMG

ONE DAY ONE GENOME

Providencia rettgeri

It is known for its role in persistent wound infections, particularly in immunocompromised patients.

Providencia rettgeri **Genome Accession Number: INS0021595**

Quality of Genome Assembly and Annotation:

Results from indigenously developed **BHARAT** analysis pipeline: (**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Table 1: Assembly Details	
Contigs	97
GC Content	40.13
Contig L50	9
Genome length	4,204,690 bp
Contig N50	127,614

Table 2: Annotated Genome Features	
CDS	3,968
tRNA	73
Repeat Regions	0
rRNA	4

Subsystem Analysis

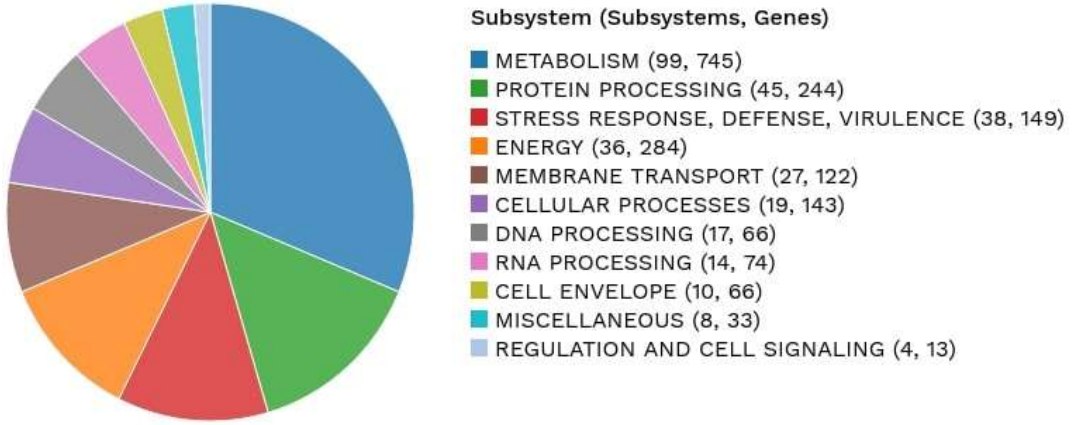

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	**Genes**
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic target replacement protein	fabV
Efflux pump conferring antibiotic resistance	AcrAB-TolC, AcrZ, EmrAB-TolC, MacA, MacB, MdtABC-TolC, MexHI-OpmD, SugE, Tet(47), TolC/OpmH
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Regulator modulating expression of antibiotic resistance genes	AcrAB-TolC, EmrAB-TolC, H-NS, OxyR

Genome Assembly