



Government of India
Ministry of Science & Technology
Department of Biotechnology

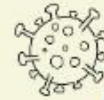


ONE DAY ONE GENOME

Glutamicibacter mishrai sp. nov.



Scientific exploration and Industrial
innovation opportunities



Isolated from the coral *Favia veroni*



Glutamicibacter mishrai sp. nov. (S5–52^T)

Genome Accession Number: CP032549

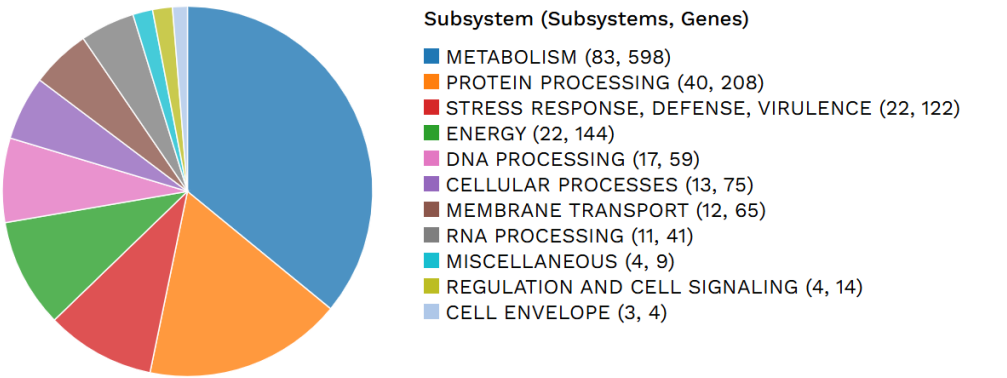
Quality of Genome Assembly and Annotation:

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

Table 1: Assembly Details	
Contigs	1
GC Content	59.44
Contig L50	1
Genome length	3,570,747 bp
Contig N50	3,570,747

Table 2: Annotated Genome Features	
CDS	3,358
tRNA	64
Repeat Regions	18
rRNA	13

Subsystem Analysis



Genome Assembly

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	FabG, FabL-like, HtdX
Regulator modulating expression of antibiotic resistance genes	LpqB, MtrA, MtrB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA

