



ONE DAY ONE GENOME

Pseudomonas sp. HS6

It produces a cold-active lipase effective across a broad temperature range, making it suitable for eco-friendly detergents



Pseudomonas sp.

Genome Accession Number: CP067412

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	1
GC Content	60.08
Contig L50	1
Genome length	6,547,752 bp
Contig N50	6,547,752

Table 2: Annotated Genome Features	
CDS	5,927
tRNA	65
Repeat Regions	37
rRNA	3

Subsystem Analysis

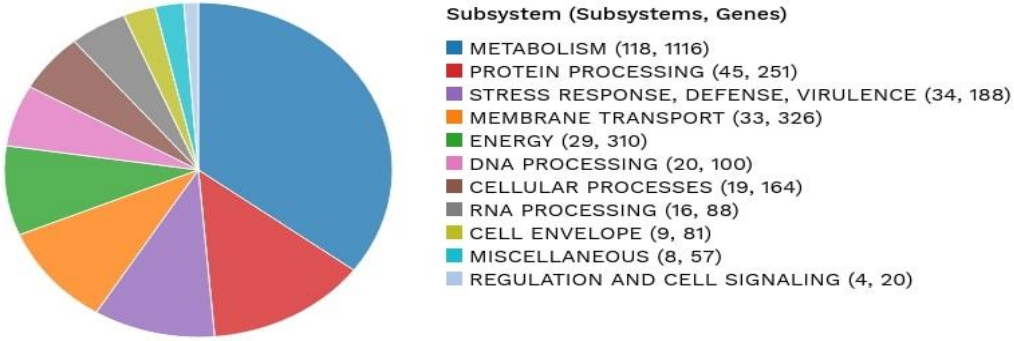


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic target replacement protein	FabG, HtdX
Efflux pump conferring antibiotic resistance	EmrAB-OMF, EmrAB-TolC, MacA, MacB, MdtABC-OMF, MdtABC-TolC, MexAB-OprM, MexEF-OprN, MexEF-OprN system, MexHI-OpmD, MexHI-OpmD system, MexJK-OprM/OpmH, MexVW-OprM, TolC/OpmH, TriABC-OpmH
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA,
Regulator modulating expression of antibiotic resistance genes	OxyR

Genome Assembly

