

ONE DAY ONE GENOME



Micrococcus luteus



Improves skin health



Ecological competition with potential pathogens



Maintains skin homeostasis



Helps in skin hydration

Micrococcus luteus

Genome Accession Number: INS0025522

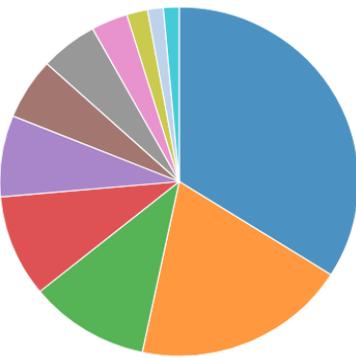
Quality of Genome Assembly and Annotation:

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

Subsystem Analysis

Table 1: Assembly Details	
Contigs	125
GC Content	72.73
Contig L50	15
Genome length	2,537,236 bp
Contig N50	54,358

Table 2: Annotated Genome Features	
CDS	2,421
tRNA	48
rRNA	2



- Subsystem (Subsystems, Genes)
- METABOLISM (72, 495)
- PROTEIN PROCESSING (41, 208)
- ENERGY (23, 154)
- STRESS RESPONSE, DEFENSE, VIRULENCE (20, 79)
- DNA PROCESSING (16, 77)
- CELLULAR PROCESSES (12, 65)
- RNA PROCESSING (11, 39)
- MEMBRANE TRANSPORT (7, 41)
- REGULATION AND CELL SIGNALING (4, 14)
- MISCELLANEOUS (3, 5)
- CELL ENVELOPE (3, 7)

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target replacement protein	FabG, FabL-like, HtdX
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
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Gene conferring resistance via absence	gidB
Regulator modulating expression of antibiotic resistance genes	BceR, BceS, LiaF, LiaR, LiaS

Genome Assembly

