



ONE DAY ONE GENOME

Lacticaseibacillus paracasei



- Isolated from traditional curd of Manipur
- Can be used as probiotic supplement

Lacticaseibacillus paracasei

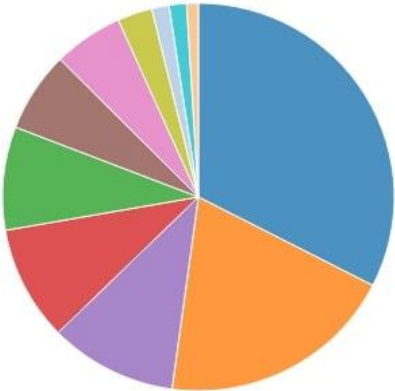
Genome Accession Number: JAXCIR000000000

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	3
GC Content	46.32
Contig L50	1
Genome length	3,366,751 bp
Contig N50	3,119,956

Table 2: Annotated Genome Features	
CDS	3,436
tRNA	54
Repeat Regions	217
rRNA	3



Subsystem Analysis

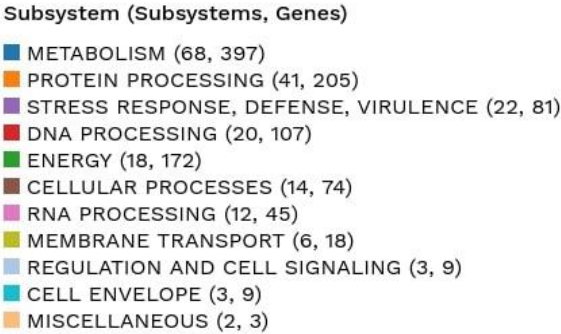


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target in susceptible species	Alr, Ddl, EF-G, EF-Tu, folA, Dfr, gyrA, gyrB, Iso-tRNA, kasA, MurA, rpoB, rpoC, S10p, S12p
Gene conferring resistance via absence	gidB
Antibiotic target replacement protein	FabK
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA, MprF
Regulator modulating expression of antibiotic resistance genes	LiaF, LiaR, LiaS

Genome Assembly

