Government of India
Ministry of Science & Technology
Department of Biotechnology

BRIC a DBT Organization | NCCS

ONE DAY ONE GENOME

Peteryoungia desertarenae

It produce exopolysaccharides like glucuronan which has applications in the food industries

***Peteryoungia desertarenae* sp. nov. (ADMK78^T)**

Genome Accession Number: CP058350

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	58.62 %
Contig L50	1
Genome length	4,342,374 bp
Contig N50	3,590,542

Table 2: Annotated Genome Features	
CDS	4,376
tRNA	53
Repeat Regions	46
rRNA	9

Subsystem Analysis

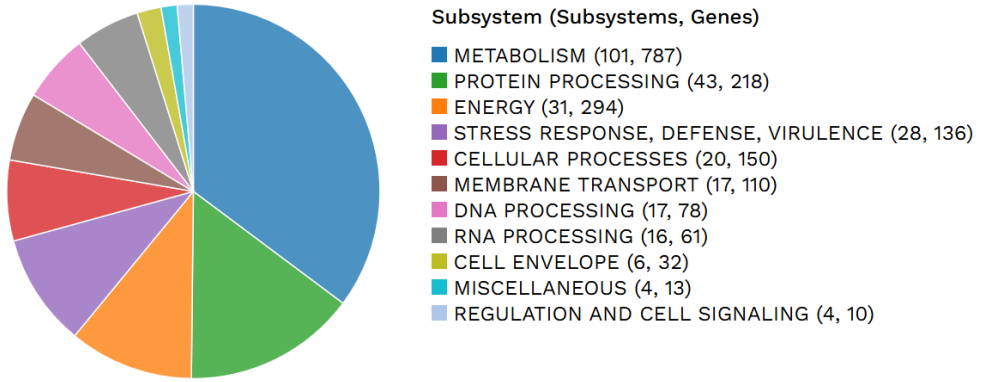

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	**Genes**
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic inactivation enzyme	AAC(6')-Ic,f,g,h,j,k,l,r-z
Regulator modulating expression of antibiotic resistance genes	OxyR
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA

Genome Assembly