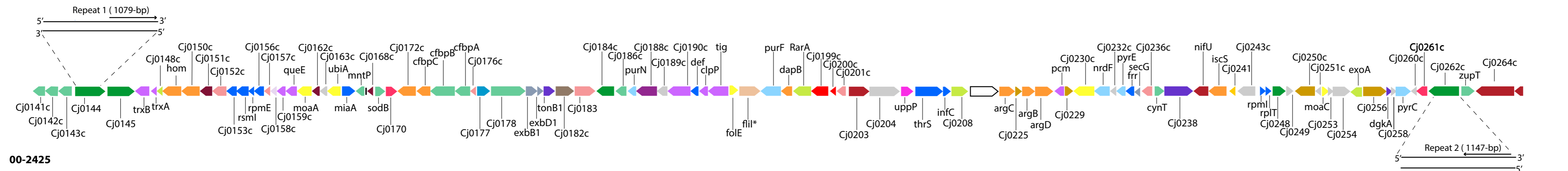
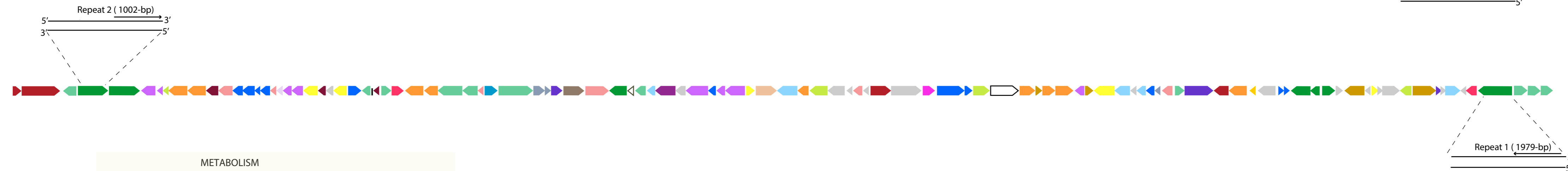


NCTC11168



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METABOLISM

- (C) energy production and conversion
- (E) Amino acid transport and metabolism
- (F) nucleotide transport and metabolism
- (G) carbohydrate transport and metabolism
- (H) coenzyme transport and metabolism
- (I) lipid transport and metabolism
- (P) inorganic ion transport and metabolism
- (Q) secondary metabolites biosynthesis, transport and catabolism

CELLULAR PROCESSES & SIGNALLING

- (M) cell wall envelope, membrane biogenesis
- (N) cell motility
- (O) post-translational modification, protein turnover and chaperones
- (T) Signal transduction mechanisms
- (U) intracellular trafficking, secretion and vesicular transport
- (V) defense mechanisms

INFORMATION STORAGE & PROCESSING

- (J) translation, ribosomal structure and biogenesis
- (L) replication, recombination and repair

POORLY CHARACTERIZED

- (R) general function protein
- (S) function unknown, hypothetical proteins

OTHER-NOT COG GROUPS

- periplasmic protein
- membrane and integral proteins
- lipoprotein
- Iron transport protein