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A draft genome sequence of the yeast *Pachysolen tannophilus* CBS 4044/NRRL Y-2460 is presented. The organism has the potential to be developed as a cell factory for biorefineries due to its ability to utilize waste feedstocks. The sequenced genome size was 12,238,196 bp, consisting of 34 scaffolds. A total of 4,463 genes from 5,346 predicted open reading frames were annotated with function.

**Nucleotide sequence accession numbers.** The draft genome sequences of *P. tannophilus* were deposited in EMBL with contig accession numbers CAHV01000001 to CAHV01000267.

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