

## GENE ESSENTIALITY%0A

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A gene can be defined as essential when loss of its function compromises viability of the individual (for example, embryonic lethality) or results in profound loss of fitness.

[Gene Essentiality - Methods and Protocols | Long Jason Lu ...](#)

This volume opens by covering two main types of approaches widely used to determine essential genes: single-gene knockouts and transposon mutagenesis, in both prokaryotes and *Candida albicans*. Given the significant advancement in the computational predictions of microbial essential genes, the

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A gene can be defined as essential when loss of its function compromises viability of the individual (for example, embryonic lethality) or results in profound loss of fitness.

[Essential gene - Wikipedia](#)

Essential gene prediction servers. Guo et al. (2015) have developed three online services to predict essential genes in bacterial genomes. These freely available tools are applicable for single gene sequences without annotated functions, single genes with definite names, and complete genomes of bacterial strains.

[Gene Essentiality Is a Quantitative Property Linked to ...](#)

Gene essentiality is typically determined by assessing the viability of the corresponding mutant cells, but this definition fails to account for the ability of cells to adaptively evolve to genetic perturbations.

[Identification and characterization of essential genes in ...](#)

The unusual karyotype of these cells also allows for an independent method of genetic screening. In this approach, null mutants are generated at random through retroviral gene-trap mutagenesis, selected for a phenotype, and monitored by sequencing the viral integration sites to pinpoint the causal genes. Positive selection-based Genome scale gene/reaction essentiality and synthetic ...

Abstract. Synthetic lethals are to pairs of non essential genes whose simultaneous deletion prohibits growth. One can extend the concept of synthetic lethality by considering gene groups of increasing size where only the simultaneous elimination of all genes is lethal, whereas individual gene deletions are not.

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Deletion of 9% of the essential yeast genes can be  
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Gene essentiality is a quantitative property that forms a genome-wide gradient Mutants in different essential subunits of a complex show evolutionary convergence Altered gene dosages driven by aneuploidy allow evolution of compensatory mechanisms

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To determine the number of CaTn-Ess genes with homologs in humans or the major human pathogens, we conducted individual searches with each essential *C. albicans* gene for a homologous gene in the relevant proteome using BLASTP from NCBI's BLAST+, version 2.3.0, and an expectation value threshold of  $1e-3$  as recommended for searches for homologous sequences.

**Pooled In-vitro CRISPR Knockout Library Essentiality ...**

Pooled In-vitro CRISPR Knockout Library Essentiality Screens (PICKLES) About. Welcome to PICKLES, the database of Pooled In vitro CRISPR Knockout Library Essentiality Screens, where end users can display and download raw or normalized essentiality profiles for more than 18,000 protein-coding genes across more than 50 cell lines.

**Gene Essentiality Is a Quantitative Property Linked to**

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Article Gene Essentiality Is a Quantitative Property Linked to Cellular Evolvability GaowenLiu,1,2  
MeiYunJacyYong, 1MarinaYurieva,3  
KandhadayarGopalanSrinivasan,3 JaronLiu,  
JohnSoonYewLim,1

**A new computational strategy for predicting essential**

...  
Background. Determination of the minimum gene set for cellular life is one of the central goals in biology. Genome-wide essential gene identification has progressed rapidly in certain bacterial species; however, it remains difficult to achieve in most eukaryotic species.