Resource Summary Report

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Quantitative (q)PCR and Differential Expression Analysis

DOI:10.17504/protocols.io.bbgpijvn
Type: Protocol

Proper Citation

Jeffrey Lewis, Amanda Scholes 2020. Quantitative (q)PCR and Differential Expression Analysis. protocols.io dx.doi.org/10.17504/protocols.io.bbgpijvn

Protocol Information

URL: https://dx.doi.org/10.17504/protocols.io.bbgpijvn

Authors: Jeffrey Lewis, Amanda Scholes

Group: Protist Research to Optimize Tools in Genetics (PROT-G), Lewis Lab

Summary: A generalizable protocol for measuring relative changes in gene expression via qPCR (cDNA synthesis, qPCR primer optimization, and qPCR analysis), with specific optimization for the budding yeast Saccharomyces cerevisiae.

Associated Publications: Scholes AN, Lewis JA, Comparison of RNA isolation methods on RNA-Seq: implications for differential expression and meta-analyses. BMC Genomics doi: 10.1186/s12864-020-6673-2

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