Resource Summary Report

Generated by T1D on Aug 1, 2026

QuantPrime

RRID:SCR_015498
Type: Tool

Proper Citation

QuantPrime (RRID:SCR_015498)

Resource Information

URL: http://quantprime.mpimp-golm.mpg.de

Proper Citation: QuantPrime (RRID:SCR_015498)

Description: Fully automated tool for primer pair design in small- to large-scale real-time reverse transcription qPCR analyses. It offers design and specificity checking with highly customizable parameters and is available for use with publicly available eukaryotic transcriptomes.

Resource Type: software resource, web application

Defining Citation: DOI:10.1186/1471-2105-9-465

Keywords: primer design, primer pair design, rt-qpcr, reverse transcription qpcr

Availability: Acknowledgement requested, Available as a web application, Available as a desktop application

Resource Name: QuantPrime

Resource ID: SCR_015498

Record Creation Time: 20220129T080326+0000

Record Last Update: 20260731T042951+0000

Ratings and Alerts

No rating or validation information has been found for QuantPrime.

No alerts have been found for QuantPrime.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 155 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Devkar V, et al. (2025) Cell-type-specific response to silicon treatment in soybean leaves revealed by single-nucleus RNA sequencing and targeted gene editing. The Plant journal : for cell and molecular biology, 123(1), e70309.

Wang Y, et al. (2025) Genome-wide characterization of the UDP-glycosyltransferases (UGT) family and functional analysis of VcUGT160 involved in dihydrozeatin glycosylation during blueberry fruits development. BMC genomics, 26(1), 1044.

K?l?ç M, et al. (2025) Jasmonic acid signaling and glutathione coordinate plant recovery from high light stress. Plant physiology, 197(4).

Kumar V, et al. (2025) Deciphering the role of monoacylglycerol lipases (MAGL) under abiotic stress and lipid metabolism in soybean (Glycine max L.). Plant biotechnology journal, 23(10), 4318.

Mohammadi V, et al. (2025) Unraveling the role of autophagy and antioxidants in anther and pistil responses to heat stress in rapeseed (Brassica napus L.). Plant cell reports, 44(2), 51.

Yu G, et al. (2025) Exogenous Spermidine Induces Cadmium Stress Tolerance in Cucumber Seedlings by Promoting Plant Growth and Defense System. Toxics, 13(10).

Safavi-Rizi V, et al. (2024) Reciprocal modulation of responses to nitrate starvation and hypoxia in roots and leaves of Arabidopsis thaliana. Plant signaling & behavior, 19(1), 2300228.

Xu K, et al. (2024) Exogenous application of the apocarotenoid retinaldehyde negatively regulates auxin-mediated root growth. Plant physiology, 196(2), 1659.

Liu C, et al. (2024) Seed longevity is controlled by metacaspases. Nature communications, 15(1), 6748.

Uraguchi S, et al. (2024) Phenylmercury stress induces root tip swelling through auxin homeostasis disruption. Plant molecular biology, 115(1), 8.

Emmerich K, et al. (2024) A large-scale CRISPR screen reveals context-specific genetic regulation of retinal ganglion cell regeneration. Development (Cambridge, England), 151(15).

Brunello L, et al. (2024) The transcription factor ORA59 represses hypoxia responses during Botrytis cinerea infection and reoxygenation. Plant physiology, 197(1).

McKown KH, et al. (2023) Expanded roles and divergent regulation of FAMA in Brachypodium and Arabidopsis stomatal development. The Plant cell, 35(2), 756.

Golconda P, et al. (2023) Subconfluent ARPE-19 Cells Display Mesenchymal Cell-State Characteristics and Behave like Fibroblasts, Rather Than Epithelial Cells, in Experimental HCMV Infection Studies. Viruses, 16(1).

Shiriaev A, et al. (2023) Selenium Biofortification Impacts the Tomato Fruit Metabolome and Transcriptional Profile at Ripening. Journal of agricultural and food chemistry, 71(36), 13554.

Zhao L, et al. (2023) The Arabidopsis thaliana onset of leaf death 12 mutation in the lectin receptor kinase P2K2 results in an autoimmune phenotype. BMC plant biology, 23(1), 294.

Sinha P, et al. (2023) Fine mapping and sequence analysis reveal a promising candidate gene encoding a novel NB-ARC domain derived from wild rice (Oryza officinalis) that confers bacterial blight resistance. Frontiers in plant science, 14, 1173063.

Thonglim A, et al. (2023) Drought response in Arabidopsis displays synergistic coordination between stems and leaves. Journal of experimental botany, 74(3), 1004.

Emmerich K, et al. (2023) Transcriptomic comparison of two selective retinal cell ablation paradigms in zebrafish reveals shared and cell-specific regenerative responses. PLoS genetics, 19(10), e1010905.

Zhou L, et al. (2023) Genome-Wide Analysis of SPL/miR156 Module and Its Expression Analysis in Vegetative and Reproductive Organs of Oil Palm (Elaeis guineensis). International journal of molecular sciences, 24(17).