

# Resource Summary Report

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## QuantPrime

RRID:SCR\_015498

Type: Tool

### Proper Citation

QuantPrime (RRID:SCR\_015498)

### Resource Information

**URL:** <http://quantprime.mpimp-golm.mpg.de>

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**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](https://doi.org/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

## Usage and Citation Metrics

We found 155 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

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?I?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).