

# 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:** 20260905T133021+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 162 mentions in open access literature.

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

Janz M, et al. (2026) Endosomal maturation is controlled by the trimeric Bulli-Mon1-Ccz1 Rab7 GEF complex and the Rab5 GTPase-activating protein GAPsec. *Journal of cell science*, 139(9).

Xu W, et al. (2026) Integrated evaluation and screening of salt-tolerant wheat germplasm and indices. *BMC plant biology*, 26(1).

Shen Q, et al. (2025) Combined Analysis of BSA-Seq and RNA-Seq Reveals Candidate Genes for qGS1 Related to Sorghum Grain Size. *Plants (Basel, Switzerland)*, 14(12).

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.

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

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.

Tang Z, et al. (2025) Melatonin Mitigates Cd-Induced Growth Repression and RNA m6A Hypermethylation by Triggering MMR-Mediated DNA Damage Response. *Plants (Basel, Switzerland)*, 14(9).

Yu G, et al. (2025) Exogenous Melatonin Induces Salt Stress Tolerance in Cucumber by Promoting Plant Growth and Defense System. *Life (Basel, Switzerland)*, 15(8).

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.

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.

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

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.

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.

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).

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.

Chaganti C, et al. (2023) Silicate solubilizing and plant growth promoting bacteria interact with biogenic silica to impart heat stress tolerance in rice by modulating physiology and gene expression. *Frontiers in microbiology*, 14, 1168415.

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